Host Controller Interface (HCI)

Bluetooth® Implementation Conformance Statement (ICS) Proforma

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1 General principles

1.1 Implementation Under Test (IUT) identification

Using the Bluetooth SIG qualification tool, the implementer is expected to declare details about what will be implemented.

1.2 Enforcement of inter-layer dependencies

This ICS includes one or more tables with inter-layer dependencies (ILDs). ILDs are used for specification requirements that are dependent on other supporting specifications. ILDs can refer to an individual ICS item in a separate layer (individual ILD), or it can refer to the full layer (full-layer ILD).

Referred ILD resides in	Individual ILD	Full-layer ILD
Controller layer	Core-Controller configuration, or Core-Complete configuration, or Referred layer is supported	N/A

Table 1.1: Enforcement of an ILD within the Bluetooth SIG qualification tool

2 ICS declarations

2.1 IUT configuration

Table 0: No longer used

Table 1a: IUT Configuration

Item	Role	Reference	Status
1	BR/EDR Controller	[1] 1	C.0
2	No longer used	N/A	N/A
3	AMP Controller	[1] 1	C.0, C.901
4	LE Controller	[1] 1	C.0

C.0: Mandatory to support at least one.

C.901: Optional IF CORE 1b/52 “Controller Core v5.2 or earlier”, otherwise Excluded.

2.2 Capability statement

The “IUT Configuration” and “Core Version” columns used in the tables below specify prerequisites for each item. Thus, for example, table 3 item 6 (LE Request Peer SCA command) is excluded unless both HCI 1a/4 (LE Controller) and CORE 1a/52 (5.2 or later) are true. Furthermore, in those instances where either the “IUT Configuration” or “Core Version” columns do not have an entry then the item status apply to any of the IUT Controller configurations or to any of the active Core Versions.

Note that the split into tables 1 to 20 is historical and no longer is significant, therefore the tables do not have titles anymore.

Table 1

Item	Capability	Reference	IUT Configuration	Core Version	Status
1	Command Complete event	[1] 7.7.14			M
1a	No longer used	N/A	N/A	N/A	N/A
1b	Support all BR/EDR Controller commands	[1] 3.3, 7.7	HCI 1a/1 “BR/EDR”		O
1c	Support all AMP Controller commands	[1] 3.3, 7.7	HCI 1a/3 “AMP”		O
1d	Support all LE Controller commands	[1] 3.3, 7.7	HCI 1a/4 “LE”		O
2	Command Status event	[1] 7.7.15			M
3	Hardware Error event	[1] 7.7.16			O

Table 2

Item	Capability	Reference	IUT Configuration	Core Version	Status
1	Reset command	[1] 7.3.2			M

Table 3

Item	Capability	Reference	IUT Configuration	Core Version	Status
1	Read Buffer Size command	[1] 7.4.5	HCI 1a/1 “BR/EDR” OR HCI 1a/3 “AMP”		M
2	Read Data Block Size command	[1] 7.4.7	HCI 1a/1 “BR/EDR” OR HCI 1a/3 “AMP”		C.124
3	Read Flow Control Mode command	[1] 7.3.72	HCI 1a/1 “BR/EDR” OR HCI 1a/3 “AMP”		C.124
4	Write Flow Control Mode command	[1] 7.3.73	HCI 1a/1 “BR/EDR” OR HCI 1a/3 “AMP”		C.124
5	LE Read Buffer Size command [v1]	[1] 7.8.2	HCI 1a/4 “LE”		C.3
6	LE Request Peer SCA command	[5] 7.8.108	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.44
7	LE Request Peer SCA Complete event	[5] 7.7.65.31	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.95
8	LE Read Buffer Size command [v2]	[5] 7.8.2	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.45
9	LE Read ISO TX Sync command	[5] 7.8.96	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.45

C.3: (Reverse ILD) Mandatory IF LL 1/4 “Peripheral Role” OR LL 1/5 “Central Role”, otherwise Excluded.

C.5a: No longer used.

C.44: (Reverse ILD) Mandatory IF LL 9/30 “Sleep Clock Accuracy Updates” AND (LL 9/31 “Connected Isochronous Stream - Central” OR LL 9/32 “Connected Isochronous Stream - Peripheral”), otherwise Optional IF LL 9/30 “Sleep Clock Accuracy Updates”, otherwise Excluded.

C.45: (Reverse ILD) Mandatory IF LL 9/31 “Connected Isochronous Stream - Central” OR LL 9/32 “Connected Isochronous Stream - Peripheral” OR LL 9/33 “Isochronous Broadcaster on the GFSK PHYs”, otherwise Excluded.

C.95: Mandatory IF HCI 3/6 “LE Request Peer SCA command”, otherwise Excluded.

C.124: Mandatory IF HCI 14/21 “Data Block Based Flow Control”, otherwise Excluded.

Table 4

Item	Capability	Reference	IUT Configuration	Core Version	Status
1	Read Local Version Information command	[1] 7.4.1			M
2	Read Local Supported Commands command [v1]	[1] 7.4.2			M

Item	Capability	Reference	IUT Configuration	Core Version	Status
2a	Read Local Supported Commands command [v2]	[13] 7.4.2		CORE 1a/63 “Controller Core v6.3 or later”	C.223
3	Read Local Supported Features command	[1] 7.4.3			M
4	Read Local Extended Features command	[1] 7.4.4	HCI 1a/1 “BR/EDR”		C.220
5	Read BD_ADDR command	[1] 7.4.6	HCI 1a/1 “BR/EDR” OR HCI 1a/4 “LE”		M
6	Read Local AMP Info command	[1] 7.5.8	HCI 1a/3 “AMP”		M
7	Read Local AMP ASSOC command	[1] 7.5.9	HCI 1a/3 “AMP”		M
8	LE Read Local Supported Features Page 0 command	[1] 7.8.3	HCI 1a/4 “LE”		M
9	LE Read Supported States command	[1] 7.8.27	HCI 1a/4 “LE”		M
10	Read Local Supported Codecs command [v1]	[1] 7.4.8	HCI 1a/1 “BR/EDR”		O
11	LE Read Antenna Information command	[2] 7.8.87	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.31
12	Read Local Simple Pairing Options command	[4] 7.4.9	HCI 1a/1 “BR/EDR”		O
13	Read Local Supported Codecs command [v2]	[5] 7.4.8	HCI 1a/1 “BR/EDR” OR HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.907
14	Read Local Supported Codec Capabilities command	[5] 7.4.10	HCI 1a/1 “BR/EDR” OR HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.156
15	Read Local Supported Controller Delay command	[1] 7.4.11	HCI 1a/1 “BR/EDR” OR HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.156
16	AMP Status Change event	[1] 7.7.61	HCI 1a/3 “AMP”		M
17	Channel Selected event	[1] 7.7.52	HCI 1a/3 “AMP”		C.150
18	LE Read All Local Supported Features command	[8] 7.8.128	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.70

Item	Capability	Reference	IUT Configuration	Core Version	Status
19	Commands in octet 64 or above	[13] 7.4.2		CORE 1a/63 “Controller Core v6.3 or later”	C.905

C.31: (Reverse ILD) Mandatory IF LL 9/14 “Connection CTE Request” OR LL 9/15 “Connection CTE Response” OR LL 9/16 “Connectionless CTE Transmitter” OR LL 9/17 “Connectionless CTE Receiver”, otherwise Excluded.

C.70: (Reverse ILD) Mandatory IF LL 9/55 “LL Extended Feature Set”, otherwise Optional.

C.150: Optional IF HCI 4/7 “Read Local AMP ASSOC command”, otherwise Excluded.

C.156: Mandatory IF HCI 4/13 “Read Local Supported Codecs command [v2]”, otherwise Excluded.

C.220: (Reverse ILD) Mandatory IF LMP 11/4 “Respond to extended features request”, otherwise Excluded.

C.223: Mandatory IF HCI 4/19 “Commands in octet 64 or above”, otherwise Optional.

C.905: Excluded until HCI commands are assigned to octet 64 or above.

C.907: Optional IF HCI 4/12 “Read Local Simple Pairing Options command”, otherwise Excluded.

Table 5

Item	Capability	Reference	IUT Configuration	Core Version	Status
1	Read Local Name command	[1] 7.3.12	HCI 1a/1 “BR/EDR”		M
2	Write Local Name command	[1] 7.3.11	HCI 1a/1 “BR/EDR”		M
3	Read Class of Device command	[1] 7.3.25	HCI 1a/1 “BR/EDR”		M
4	Write Class of Device command	[1] 7.3.26	HCI 1a/1 “BR/EDR”		M
5	Read Number of Supported IAC command	[1] 7.3.43	HCI 1a/1 “BR/EDR”		C.125
6	Read Current IAC LAP command	[1] 7.3.44	HCI 1a/1 “BR/EDR”		C.125
7	Write Current IAC LAP command	[1] 7.3.45	HCI 1a/1 “BR/EDR”		C.125
8	Read Scan Enable command	[1] 7.3.17	HCI 1a/1 “BR/EDR”		M
9	Write Scan Enable command	[1] 7.3.18	HCI 1a/1 “BR/EDR”		M
10	Write Remote AMP ASSOC command	[1] 7.5.10	HCI 1a/3 “AMP”		M
11	Write Location Data command	[1] 7.3.71	HCI 1a/3 “AMP”		M
12	Read Location Data command	[1] 7.3.70	HCI 1a/3 “AMP”		M
13	LE Set Random Address command	[1] 7.8.4	HCI 1a/4 “LE”		C.43

Item	Capability	Reference	IUT Configuration	Core Version	Status
14	LE Read Filter Accept List Size command	[1] 7.8.14	HCI 1a/4 “LE”		M
15	LE Add Device To Filter Accept List command	[1] 7.8.16	HCI 1a/4 “LE”		M
16	LE Clear Filter Accept List command	[1] 7.8.15	HCI 1a/4 “LE”		M
17	LE Remove Device From Filter Accept List command	[1] 7.8.17	HCI 1a/4 “LE”		M
18	Set MWS Channel Parameters command	[1] 7.3.80			O
19	Set External Frame Configuration command	[1] 7.3.81			C.108
20	Set MWS Signaling command	[1] 7.3.82			O
21	Set MWS Transport Layer command	[1] 7.3.83			C.109
22	Set MWS Scan Frequency Table command	[1] 7.3.84			O
23	Set MWS_PATTERN Configuration command	[1] 7.3.85	HCI 1a/1 “BR/EDR”		C.136
24	Get MWS Transport Layer Configuration command	[1] 7.5.11			C.109
25	Set Triggered Clock Capture command	[1] 7.5.12	HCI 1a/1 “BR/EDR”		O
26	Triggered Clock Capture event	[1] 7.7.66	HCI 1a/1 “BR/EDR”		C.110
27	LE Add Device To Resolving List command	[1] 7.8.38	HCI 1a/4 “LE”		C.9
28	LE Remove Device From Resolving List command	[1] 7.8.39	HCI 1a/4 “LE”		C.9
29	LE Clear Resolving List command	[1] 7.8.40	HCI 1a/4 “LE”		C.9
30	LE Read Resolving List Size command	[1] 7.8.41	HCI 1a/4 “LE”		C.9
31	LE Set Address Resolution Enable command	[1] 7.8.44	HCI 1a/4 “LE”		C.9

Item	Capability	Reference	IUT Configuration	Core Version	Status
32	LE Set Resolvable Private Address Timeout command [v1]	[1] 7.8.45	HCI 1a/4 “LE”		C.9
32a	LE Set Resolvable Private Address Timeout command [v2]	[9] 7.8.45	HCI 1a/4 “LE”	CORE 1a/61 “Controller Core v6.1 or later”	C.908
33	LE Set Advertising Set Random Address command	[2] 7.8.52	HCI 1a/4 “LE”		C.17
34	LE Set Extended Advertising Parameters command [v1]	[2] 7.8.53	HCI 1a/4 “LE”		C.17
34a	LE Set Extended Advertising Parameters command [v2]	[2] 7.8.53	HCI 1a/4 “LE”	CORE 1a/54 “Controller Core v5.4 or later”	C.66
35	LE Set Periodic Advertising Parameters command [v1]	[2] 7.8.61	HCI 1a/4 “LE”		C.18
35a	LE Set Periodic Advertising Parameters command [v2]	[2] 7.8.61	HCI 1a/4 “LE”	CORE 1a/54 “Controller Core v5.4 or later”	C.67
36	LE Set Extended Advertising Data command	[2] 7.8.54	HCI 1a/4 “LE”		C.17
37	LE Set Periodic Advertising Data command	[2] 7.8.62	HCI 1a/4 “LE”		C.18
38	LE Set Extended Scan Response Data command	[2] 7.8.55	HCI 1a/4 “LE”		C.17
39	LE Scan Request Received event	[2] 7.7.65.19	HCI 1a/4 “LE”		C.17
40	LE Set Extended Advertising Enable command	[2] 7.8.56	HCI 1a/4 “LE”		C.17
41	LE Set Periodic Advertising Enable command	[2] 7.8.63	HCI 1a/4 “LE”		C.18
42	LE Read Maximum Advertising Data Length command	[2] 7.8.57	HCI 1a/4 “LE”		C.17
43	LE Read Number of Supported Advertising Sets command	[2] 7.8.58	HCI 1a/4 “LE”		C.17

Item	Capability	Reference	IUT Configuration	Core Version	Status
44	LE Read Transmit Power command	[2] 7.8.74	HCI 1a/4 “LE”		C.64
45	LE Write RF Path Compensation command	[2] 7.8.76	HCI 1a/4 “LE”		C.22
46	LE Read RF Path Compensation command	[2] 7.8.75	HCI 1a/4 “LE”		C.22
47	LE Remove Advertising Set command	[2] 7.8.59	HCI 1a/4 “LE”		C.17
48	LE Clear Advertising Sets command	[2] 7.8.60	HCI 1a/4 “LE”		C.17
49	LE Advertising Set Terminated event	[2] 7.7.65.18	HCI 1a/4 “LE”		C.17
50	LE Set Connectionless CTE Transmit Parameters command	[2] 7.8.80	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.27
51	LE Set Connectionless CTE Transmit Enable command	[2] 7.8.81	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.27
52	LE Set Connectionless IQ Sampling Enable command	[2] 7.8.82	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.28
53	SAM Status Change event	[2] 7.7.76	HCI 1a/1 “BR/EDR”		C.219
54	LE Setup ISO Data Path command [v1]	[5] 7.8.109	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.47
54a	LE Setup ISO Data Path command [v2]	[14] 7.8.109	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.164
55	LE Remove ISO Data Path command	[2] 7.8.110	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.47
56	LE Set CIG Parameters command [v1]	[2] 7.8.97	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.39
56a	LE Set CIG Parameters command [v2]	[14] 7.8.97	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.160

Item	Capability	Reference	IUT Configuration	Core Version	Status
57	LE Remove CIG command	[2] 7.8.100	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.39
58	LE Set CIG Parameters Test command [v1]	[2] 7.8.98	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.39
58a	LE Set CIG Parameters Test command [v2]	[14] 7.8.98	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.160
59	LE Enhanced Read Transmit Power Level command	[2] 7.8.117	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.51
60	LE Set Path Loss Reporting Parameters command	[2] 7.8.119	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.52
61	LE Set Path Loss Reporting Enable command	[2] 7.8.120	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.52
62	LE Transmit Power Reporting event	[2] 7.7.65.33	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.51
63	LE Path Loss Threshold event	[2] 7.7.65.32	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.52
64	LE Set Transmit Power Reporting Enable command	[2] 7.8.121	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.51
65	Set Ecosystem Base Interval command	[2] 7.3.100		CORE 1a/52 “Controller Core v5.2 or later”	O
66	Configure Data Path command	[5] 7.3.101	HCI 1a/1 “BR/EDR” OR HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.156
67	LE Periodic Advertising Response Report event	[2] 7.7.65.37	HCI 1a/4 “LE”	CORE 1a/54 “Controller Core v5.4 or later”	C.67
68	LE Periodic Advertising Subevent Data Request event	[2] 7.7.65.36	HCI 1a/4 “LE”	CORE 1a/54 “Controller Core v5.4 or later”	C.67

Item	Capability	Reference	IUT Configuration	Core Version	Status
69	LE Set Periodic Advertising Subevent Data command	[2] 7.8.125	HCI 1a/4 “LE”	CORE 1a/54 “Controller Core v5.4 or later”	C.67
70	LE Set Decision Data command	[7] 7.8.144	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.73
71	LE Set Decision Instructions command	[7] 7.8.145	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.74
72	LE Add Device To Monitored Advertisers List command	[7] 7.8.146	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.78
73	LE Remove Device From Monitored Advertisers List command	[7] 7.8.147	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.78
74	LE Clear Monitored Advertisers List command	[7] 7.8.148	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.78
75	LE Enable Monitoring Advertisers command	[7] 7.8.149	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.78
76	LE Read Monitored Advertisers List Size command	[7] 7.8.150	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.78
77	LE Monitored Advertisers Report Event	[7] 7.7.65.47	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.78

C.9: (Reverse ILD) Mandatory IF LL 9/13 “LL Privacy”, otherwise Excluded.

C.17: (Reverse ILD) Mandatory IF LL 3/9 “Extended Advertising”, otherwise Excluded.

C.18: (Reverse ILD) Mandatory IF LL 3/10 “Periodic Advertising”, otherwise Excluded.

C.22: (Reverse ILD) Mandatory IF LL 3/12 “Sending Tx Power in advertisements” OR LL 9/37 “LE Power Control Request”, otherwise Optional.

C.27: (Reverse ILD) Mandatory IF LL 9/16 “Connectionless CTE Transmitter”, otherwise Excluded.

C.28: (Reverse ILD) Mandatory IF LL 9/17 “Connectionless CTE Receiver”, otherwise Excluded.

C.39: (Reverse ILD) Mandatory IF LL 9/31 “Connected Isochronous Stream - Central”, otherwise Excluded.

C.43: (Reverse ILD) Mandatory IF LL 2/2 “Random Address”, otherwise Optional IF RFPHY 0/1 “LE Transmitter”, otherwise Excluded.

C.47: (Reverse ILD) Mandatory IF LL 9/31 “Connected Isochronous Stream - Central” OR LL 9/32 “Connected Isochronous Stream - Peripheral”, OR LL 9/33 “Isochronous Broadcaster on the GFSK PHYs” OR LL 9/34 “Synchronized Receiver on the GFSK PHYs”, otherwise Excluded.

C.51: (Reverse ILD) Mandatory IF LL 9/37 “LE Power Control Request”, otherwise Excluded.
C.52: (Reverse ILD) Mandatory IF LL 9/39 “LE Path Loss Monitoring”, otherwise Excluded.
C.64: (Reverse ILD) Optional IF RFPHY 0/1 “LE Transmitter”, otherwise Excluded.
C.66: (Reverse ILD) Mandatory IF LL 9/48 “Advertising Coding Selection“, otherwise Excluded.
C.67: (Reverse ILD) Mandatory IF LL 3/10a “Periodic Advertising with Responses”, otherwise Excluded.
C.73: (Reverse ILD) Mandatory IF LL 1/1 “Advertising State” AND LL 9/51 “Decision-Based Advertising Filtering”, otherwise Excluded.
C.74: (Reverse ILD) Mandatory IF LL 1/2 “Scanning State” AND LL 9/51 “Decision-Based Advertising Filtering”, otherwise Excluded.
C.78: (Reverse ILD) Mandatory IF LL 9/52 “Monitoring Advertisers”, otherwise Excluded.
C.108: Mandatory IF HCI 5/23 “Set MWS_PATTERN Configuration command”, otherwise Optional.
C.109: Mandatory IF HCI 5/20 “Set MWS Signaling command”, otherwise Excluded.
C.110: Mandatory IF HCI 5/25 “Set Triggered Clock Capture command”, otherwise Excluded.
C.125: (Reverse ILD) Mandatory IF BB 10/2 “Inquiry Scan with first FHS”, otherwise Excluded.
C.136: (Reverse ILD) Optional IF BB 19/1 “Slot Availability Mask”, otherwise Excluded.
C.156: Mandatory IF HCI 4/13 “Read Local Supported Codecs command [v2]”, otherwise Excluded.
C.160: (Reverse ILD) Mandatory IF LL 9/72 “Connected Isochronous Stream – Parameter Update” OR LL 9/76 “High Data Throughput”, otherwise Optional.
C.164: (Reverse ILD) Mandatory IF LL 9/72 “Connected Isochronous Stream – Parameter Update”, otherwise Excluded.
C.219: (Reverse ILD) Mandatory IF LMP 2/29 “Slot Availability Mask”, otherwise Excluded.
C.908: Optional IF HCI 5/32 “LE Set Resolvable Private Address Timeout command [v1]”, otherwise Excluded.

Table 6

Item	Capability	Reference	IUT Configuration	Core Version	Status	Inter-Layer Dependency
1	Inquiry command	[1] 7.1.1	HCI 1a/1 “BR/EDR”		C.127	N/A
2	Inquiry Cancel command	[1] 7.1.2	HCI 1a/1 “BR/EDR”		C.127	N/A
3	Periodic Inquiry Mode command	[1] 7.1.3	HCI 1a/1 “BR/EDR”		C.128	N/A
4	Exit Periodic Inquiry Mode command	[1] 7.1.4	HCI 1a/1 “BR/EDR”		C.103	N/A
5	Read Inquiry Scan Activity command	[1] 7.3.21	HCI 1a/1 “BR/EDR”		C.125	N/A
6	Write Inquiry Scan Activity command	[1] 7.3.22	HCI 1a/1 “BR/EDR”		C.125	N/A
7	Read Inquiry Scan Type command	[1] 7.3.47	HCI 1a/1 “BR/EDR”		C.125	N/A

Item	Capability	Reference	IUT Configuration	Core Version	Status	Inter-Layer Dependency
8	Write Inquiry Scan Type command	[1] 7.3.48	HCI 1a/1 “BR/EDR”		C.125	N/A
9	Read Inquiry Mode command	[1] 7.3.49	HCI 1a/1 “BR/EDR”		C.115	N/A
10	Write Inquiry Mode command	[1] 7.3.50	HCI 1a/1 “BR/EDR”		C.146	N/A
11	Read Inquiry Response Transmit Power Level command	[1] 7.3.61	HCI 1a/1 “BR/EDR”		C.125	N/A
12	Write Inquiry Transmit Power Level command	[1] 7.3.62	HCI 1a/1 “BR/EDR”		C.127	N/A
13	Read Extended Inquiry Response command	[1] 7.3.55	HCI 1a/1 “BR/EDR”		C.205	N/A
14	Write Extended Inquiry Response command	[1] 7.3.56	HCI 1a/1 “BR/EDR”		C.205	N/A
15	LE Set Advertising Enable command	[1] 7.8.9	HCI 1a/4 “LE”		C.97	N/A
16	LE Set Advertising Parameters command	[1] 7.8.5	HCI 1a/4 “LE”		C.97	N/A
17	LE Set Scan Response Data command	[1] 7.8.8	HCI 1a/4 “LE”		C.15	N/A
18	LE Set Advertising Data command	[1] 7.8.7	HCI 1a/4 “LE”		C.97	N/A
19	LE Advertising Report event	[1] 7.7.65.2	HCI 1a/4 “LE”		C.98	N/A
20	LE Set Scan Enable command	[1] 7.8.11	HCI 1a/4 “LE”		C.98	N/A

Item	Capability	Reference	IUT Configuration	Core Version	Status	Inter-Layer Dependency
21	LE Set Scan Parameters command	[1] 7.8.10	HCI 1a/4 “LE”		C.98	N/A
22	LE Read Advertising Physical Channel Tx Power command	[1] 7.8.6	HCI 1a/4 “LE”		C.97	N/A
23	Inquiry Response Notification event	[1] 7.7.74	HCI 1a/1 “BR/EDR”		C.126	[12] LMP 2a/132a
24	Read Extended Inquiry Length command	[1] 7.3.98	HCI 1a/1 “BR/EDR”		C.113	N/A
25	Write Extended Inquiry Length command	[1] 7.3.99	HCI 1a/1 “BR/EDR”		C.128	N/A
26	LE Directed Advertising Report event	[1] 7.7.65.11	HCI 1a/4 “LE”		C.63	N/A
27	LE Set Extended Scan Parameters command	[2] 7.8.64	HCI 1a/4 “LE”		C.19	N/A
28	LE Set Extended Scan Enable command	[2] 7.8.65	HCI 1a/4 “LE”		C.19	N/A
29	LE Extended Advertising Report event	[2] 7.7.65.13	HCI 1a/4 “LE”		C.19	N/A
30	LE Periodic Advertising Create Sync command	[2] 7.8.67	HCI 1a/4 “LE”		C.16	N/A
31	LE Periodic Advertising Create Sync Cancel command	[2] 7.8.68	HCI 1a/4 “LE”		C.16	N/A

Item	Capability	Reference	IUT Configuration	Core Version	Status	Inter-Layer Dependency
32	LE Periodic Advertising Terminate Sync command	[2] 7.8.69	HCI 1a/4 “LE”		C.21	N/A
33	LE Periodic Advertising Report event [v1]	[2] 7.7.65.15	HCI 1a/4 “LE”		C.21	N/A
33a	LE Periodic Advertising Report event [v2]	[2] 7.7.65.15	HCI 1a/4 “LE”	CORE 1a/54 “Controller Core v5.4 or later”	C.68	N/A
34	LE Periodic Advertising Sync Lost event	[2] 7.7.65.16	HCI 1a/4 “LE”		C.21	N/A
35	LE Periodic Advertising Sync Established event [v1]	[2] 7.7.65.14	HCI 1a/4 “LE”		C.16	N/A
35a	LE Periodic Advertising Sync Established event [v2]	[2] 7.7.65.14	HCI 1a/4 “LE”	CORE 1a/54 “Controller Core v5.4 or later”	C.68	N/A
36	LE Scan Timeout event	[2] 7.7.65.17	HCI 1a/4 “LE”		C.19	N/A
37	LE Set Periodic Advertising Receive Enable command	[3] 7.8.88	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.32	N/A
38	LE BIG Create Sync command	[5] 7.8.106	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.42	N/A
39	LE BIG Sync Established event	[2] 7.7.65.29	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.42	N/A
40	LE Terminate BIG command	[2] 7.8.105	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.41	N/A

Item	Capability	Reference	IUT Configuration	Core Version	Status	Inter-Layer Dependency
41	LE BIG Sync Lost event	[2] 7.7.65.30	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.42	N/A
42	LE BIG Terminate Sync command	[2] 7.8.107	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.42	N/A
43	LE Terminate BIG Complete event	[2] 7.7.65.28	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.41	N/A
44	LE BIGInfo Advertising Report event	[2] 7.7.65.34	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.54	N/A
45	Inquiry Result event	[2] 7.7.2	HCI 1a/1 “BR/EDR”		C.127	N/A
46	Extended Inquiry Result event	[2] 7.7.38	HCI 1a/1 “BR/EDR”		C.147	N/A
47	Inquiry Result with RSSI event	[2] 7.7.33	HCI 1a/1 “BR/EDR”		C.128	N/A
48	Inquiry Complete event	[2] 7.7.1	HCI 1a/1 “BR/EDR”		C.127	N/A
49	Page Scan Repetition Mode Change event	[2] 7.7.31	HCI 1a/1 “BR/EDR”		O	N/A
50	LE Set Periodic Sync Subevent command	[2] 7.8.127	HCI 1a/4 “LE”	CORE 1a/54 “Controller Core v5.4 or later”	C.68	N/A
51	LE Set Periodic Advertising Response Data command	[2] 7.8.126	HCI 1a/4 “LE”	CORE 1a/54 “Controller Core v5.4 or later”	C.68	N/A

C.15: (Reverse ILD) Mandatory IF LL 3/2 “Connectable and scannable undirected events” OR LL 3/5 “Scannable undirected events” OR LL 3/5a “Scannable directed events”, otherwise Excluded.

C.16: (Reverse ILD) Mandatory IF LL 4/8 “Scanning for Periodic Advertising” AND LL 1/3a “Synchronization State”, otherwise Excluded.

C.19: (Reverse ILD) Mandatory IF LL 4/7 “Extended Scanning”, otherwise Excluded.

C.21: (Reverse ILD) Mandatory IF LL 11/1 “Synchronizing to Periodic Advertising”, otherwise Excluded.

C.32: (Reverse ILD) Mandatory IF LL 9/27 “Periodic Advertising Sync Transfer - Recipient”, otherwise Optional IF LL 11/1 “Synchronizing to Periodic Advertising”, otherwise Excluded.

C.41: (Reverse ILD) Mandatory IF LL 9/33 “Isochronous Broadcaster on the GFSK PHYs”, otherwise Excluded.

C.42: (Reverse ILD) Mandatory IF LL 9/34 “Synchronized Receiver on the GFSK PHYs”, otherwise Excluded.

C.54: (Reverse ILD) Mandatory IF LL 9/34 “Synchronized Receiver on the GFSK PHYs”, otherwise Optional.

C.63: (Reverse ILD) Mandatory IF LL 1/2 “Scanning State” AND LL 9/13 “LL Privacy”, otherwise Excluded.

C.68: (Reverse ILD) Mandatory IF LL 4/8a “Scanning for Periodic Advertising with Responses”, otherwise Excluded.

C.97: (Reverse ILD) Mandatory IF LL 1/1 “Advertising State”, otherwise Excluded.

C.98: (Reverse ILD) Mandatory IF LL 1/2 “Scanning State”, otherwise Excluded.

C.103: Mandatory IF HCI 6/3 “Periodic Inquiry Mode command”, otherwise Excluded.

C.113: Mandatory IF HCI 6/25 “Write Extended Inquiry Length command”, otherwise Excluded.

C.115: Mandatory IF HCI 6/10 “Write Inquiry Mode command”, otherwise Excluded.

C.125: (Reverse ILD) Mandatory IF BB 10/2 “Inquiry Scan with first FHS”, otherwise Excluded.

C.126: (Reverse ILD) Optional IF BB 10/2 “Inquiry Scan with first FHS”, otherwise Excluded.

C.127: (Reverse ILD) Mandatory IF BB 10/1 “Inquiry”, otherwise Excluded.

C.128: (Reverse ILD) Optional IF BB 10/1 “Inquiry”, otherwise Excluded.

C.146: (Reverse ILD) Mandatory IF HCI 6/46 “Extended Inquiry Result event” OR HCI 16/54 “IO Capability Request event”, otherwise Optional IF BB 10/1 “Inquiry”, otherwise Excluded.

C.147: Optional IF HCI 6/47 “Inquiry Result with RSSI event”, otherwise Excluded.

C.205: (Reverse ILD) Mandatory IF BB 10/7 “Extended Inquiry Response”, otherwise Excluded.

Table 7

Item	Capability	Reference	IUT Configuration	Core Version	Status
1	Create Connection command	[1] 7.1.5	HCI 1a/1 “BR/EDR”		M
2	Accept Connection Request command	[1] 7.1.8	HCI 1a/1 “BR/EDR”		M
3	Reject Connection Request command	[1] 7.1.9	HCI 1a/1 “BR/EDR”		M
4	Create Connection Cancel command	[1] 7.1.7	HCI 1a/1 “BR/EDR”		M
5	Disconnect command	[1] 7.1.6	HCI 1a/1 “BR/EDR” OR HCI 1a/4 “LE”		C.3b
6	Read Page Timeout command	[1] 7.3.15	HCI 1a/1 “BR/EDR”		M
7	Write Page Timeout command	[1] 7.3.16	HCI 1a/1 “BR/EDR”		M
8	Read Page Scan Activity command	[1] 7.3.19	HCI 1a/1 “BR/EDR”		M
9	Write Page Scan Activity command	[1] 7.3.20	HCI 1a/1 “BR/EDR”		M

Item	Capability	Reference	IUT Configuration	Core Version	Status
10	Read Page Scan Type command	[1] 7.3.51	HCI 1a/1 “BR/EDR”		C.119
11	Write Page Scan Type command	[1] 7.3.52	HCI 1a/1 “BR/EDR”		C.154
12	Read Connection Accept Timeout command	[1] 7.3.13			C.40a
13	Write Connection Accept Timeout command	[1] 7.3.14			C.40a
14	Create Physical Link command	[1] 7.1.37	HCI 1a/3 “AMP”		M
15	Accept Physical Link command	[1] 7.1.38	HCI 1a/3 “AMP”		M
16	Disconnect Physical Link command	[1] 7.1.39	HCI 1a/3 “AMP”		M
17	Create Logical Link command	[1] 7.1.40	HCI 1a/3 “AMP”		M
18	Accept Logical Link command	[1] 7.1.41	HCI 1a/3 “AMP”		M
19	Disconnect Logical Link command	[1] 7.1.42	HCI 1a/3 “AMP”		M
20	Logical Link Cancel command	[1] 7.1.43	HCI 1a/3 “AMP”		M
21	Read Logical Link Accept Timeout command	[1] 7.3.67	HCI 1a/3 “AMP”		M
22	Write Logical Link Accept Timeout command	[1] 7.3.68	HCI 1a/3 “AMP”		M
23	LE Create Connection command	[1] 7.8.12	HCI 1a/4 “LE”		C.59
24	LE Create Connection Cancel command	[1] 7.8.13	HCI 1a/4 “LE”		C.94
25	LE Connection Complete event	[1] 7.7.65.1	HCI 1a/4 “LE”		C.3
26	Disconnection Complete event	[1] 7.7.5	HCI 1a/1 “BR/EDR” OR HCI 1a/4 “LE”		C.3b
27	LE Connection Update command	[1] 7.8.18	HCI 1a/4 “LE”		C.62

Item	Capability	Reference	IUT Configuration	Core Version	Status
28	LE Connection Update Complete event	[1] 7.7.65.3	HCI 1a/4 “LE”		C.3
29	Truncated Page command	[1] 7.1.47	HCI 1a/1 “BR/EDR”		C.129
30	Truncated Page Cancel command	[1] 7.1.48	HCI 1a/1 “BR/EDR”		C.129
31	Truncated Page Complete event	[1] 7.7.71	HCI 1a/1 “BR/EDR”		C.129
32	Peripheral Page Response Timeout event	[1] 7.7.72	HCI 1a/1 “BR/EDR”		O
33	Read Extended Page Timeout command	[1] 7.3.96	HCI 1a/1 “BR/EDR”		C.114
34	Write Extended Page Timeout command	[1] 7.3.97	HCI 1a/1 “BR/EDR”		O
35	LE Remote Connection Parameter Request Reply command	[1] 7.8.31	HCI 1a/4 “LE”		C.6
36	LE Remote Connection Parameter Request Negative Reply command	[1] 7.8.32	HCI 1a/4 “LE”		C.6
37	LE Remote Connection Parameter Request event	[1] 7.7.65.6	HCI 1a/4 “LE”		C.6
38	LE Enhanced Connection Complete event [v1]	[1] 7.7.65.10	HCI 1a/4 “LE”		C.24
38a	LE Enhanced Connection Complete event [v2]	[2] 7.7.65.10	HCI 1a/4 “LE”	CORE 1a/54 “Controller Core v5.4 or later”	C.69
39	LE Read Peer Resolvable Address command	[1] 7.8.42	HCI 1a/4 “LE”		C.10
40	LE Read Local Resolvable Address command	[1] 7.8.43	HCI 1a/4 “LE”		C.10
41	LE Extended Create Connection command [v1]	[2] 7.8.66	HCI 1a/4 “LE”		C.20

Item	Capability	Reference	IUT Configuration	Core Version	Status
41a	LE Extended Create Connection command [v2]	[2] 7.8.66	HCI 1a/4 “LE”	CORE 1a/54 “Controller Core v5.4 or later”	C.67
42	LE Channel Selection Algorithm event	[2] 7.7.65.20	HCI 1a/4 “LE”		C.23
43	LE Set Privacy Mode command	[2] 7.8.77	HCI 1a/4 “LE”		C.9
44	Connection Request event	[1] 7.7.4	HCI 1a/1 “BR/EDR”		M
45	Connection Complete event	[1] 7.7.3	HCI 1a/1 “BR/EDR”		M
46	Physical Link Complete event	[1] 7.7.51	HCI 1a/3 “AMP”		M
47	Logical Link Complete event	[1] 7.7.56	HCI 1a/3 “AMP”		M
48	Disconnection Physical Link Complete event	[1] 7.7.53	HCI 1a/3 “AMP”		M
49	Disconnection Logical Link Complete event	[1] 7.7.57	HCI 1a/3 “AMP”		M
50	LE Set Default Subrate command	[6] 7.8.123	HCI 1a/4 “LE”	CORE 1a/53 “Controller Core v5.3 or later”	C.57
51	LE Subrate Request command	[6] 7.8.124	HCI 1a/4 “LE”	CORE 1a/53 “Controller Core v5.3 or later”	C.57
52	LE Subrate Change event	[6] 7.7.65.35	HCI 1a/4 “LE”	CORE 1a/53 “Controller Core v5.3 or later”	C.57
53	LE Connection Rate Request command	[10] 7.8.154	HCI 1a/4 “LE”	CORE 1a/62 “Controller Core v6.2 or later”	C.85
54	LE Connection Rate Change event	[10] 7.6.65.50	HCI 1a/4 “LE”	CORE 1a/62 “Controller Core v6.2 or later”	C.85

Item	Capability	Reference	IUT Configuration	Core Version	Status
55	LE Set Default Rate Parameters command	[10] 7.8.155	HCI 1a/4 “LE”	CORE 1a/62 “Controller Core v6.2 or later”	C.85
56	LE Read Minimum Supported Connection Interval	[10] 7.8.156	HCI 1a/4 “LE”	CORE 1a/62 “Controller Core v6.2 or later”	C.85

C.3: (Reverse ILD) Mandatory IF LL 1/4 “Peripheral Role” OR LL 1/5 “Central Role”, otherwise Excluded.

C.3b: (Reverse ILD) Mandatory IF HCI 1a/1 “BR/EDR Controller” OR LL 1/4 “Peripheral Role” OR LL 1/5 “Central Role”, otherwise Excluded.

C.6: (Reverse ILD) Mandatory IF LL 9/3 “Connection Parameters Request procedure”, otherwise Excluded.

C.9: (Reverse ILD) Mandatory IF LL 9/13 “LL Privacy”, otherwise Excluded.

C.10: (Reverse ILD) Optional IF LL 9/13 “LL Privacy”, otherwise Excluded.

C.20: (Reverse ILD) Mandatory IF LL 5/4 “Requesting connections using extended advertising”, otherwise Excluded.

C.23: (Reverse ILD) Mandatory IF LL 9/10 “Channel Selection Algorithm #2”, otherwise Excluded.

C.24: (Reverse ILD) Mandatory IF (LL 1/4 “Peripheral Role” OR LL 1/5 “Central Role”) AND (LL 9/13 “LL Privacy” OR LL 5/4 “Requesting connections using extended advertising”), otherwise Optional IF LL 1/4 “Peripheral Role” OR LL 1/5 “Central Role”, otherwise Excluded.

C.40a: (Reverse ILD) Mandatory IF HCI 1a/1 “BR/EDR Controller” OR HCI 1a/3 “AMP Controller” OR LL 9/32 “Connected Isochronous Stream - Peripheral”, otherwise Excluded.

C.57: (Reverse ILD) Mandatory IF LL 9/45 “Connection Subrating”, otherwise Excluded.

C.59: (Reverse ILD) Mandatory IF LL 1/5 “Central Role”, otherwise Excluded.

C.62: (Reverse ILD) Mandatory IF LL 1/5 “Central Role” OR (LL 1/4 “Peripheral Role” AND LL 9/3 “Connection Parameters Request procedure”), otherwise Excluded.

C.67: (Reverse ILD) Mandatory IF LL 3/10a “Periodic Advertising with Responses”, otherwise Excluded.

C.69: (Reverse ILD) Mandatory IF LL 3/10a “Periodic Advertising with Responses” OR LL 4/8a “Scanning for Periodic Advertising with Responses”, otherwise Excluded.

C.85: (Reverse ILD) Mandatory IF LL 9/69 “Shorter Connection Intervals”, otherwise Excluded.

C.94: Mandatory IF HCI 7/23 “LE Create Connection command” OR HCI 7/41 “LE Extended Create Connection command [v1]”, otherwise Excluded.

C.114: Mandatory IF HCI 7/34 “Write Extended Page Timeout command”, otherwise Excluded.

C.119: Mandatory IF HCI 7/11 “Write Page Scan Type command”, otherwise Excluded.

C.129: (Reverse ILD) Mandatory IF BB 7/6 “Truncated Paging”, otherwise Excluded.

C.154: (Reverse ILD) Mandatory IF BB 7/5 “Interlaced Scan during Page Scan”, otherwise Optional.

Table 8

Item	Capability	Reference	IUT Configuration	Core Version	Status
1	Remote Name Request command	[1] 7.1.19	HCI 1a/1 “BR/EDR”		O
2	Remote Name Request Cancel command	[1] 7.1.20	HCI 1a/1 “BR/EDR”		C.106

Item	Capability	Reference	IUT Configuration	Core Version	Status
3	Read Remote Supported Features command	[1] 7.1.21	HCI 1a/1 “BR/EDR”		M
4	Read Remote Extended Features command	[1] 7.1.22	HCI 1a/1 “BR/EDR”		C.220
5	No longer used	N/A	N/A	N/A	N/A
5a	Read Remote Version Information command on BR/EDR	[1] 7.1.23	HCI 1a/1 “BR/EDR”		O
5b	Read Remote Version Information command on LE	[1] 7.1.23	HCI 1a/4 “LE”		C.3
6	LE Read Remote Features Page 0 command	[1] 7.8.21	HCI 1a/4 “LE”		C.3
7	LE Read Remote Features Page 0 Complete event	[1] 7.7.65.4	HCI 1a/4 “LE”		C.3
8	No longer used	N/A	N/A	N/A	N/A
8a	Read Remote Version Information Complete event on BR/EDR	[1] 7.7.12	HCI 1a/1 “BR/EDR”		C.105
8b	Read Remote Version Information Complete event on LE	[1] 7.7.12	HCI 1a/4 “LE”		C.3
9	LE Connectionless IQ Report event	[2] 7.7.65.21	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.28
10	LE Read Remote Transmit Power Level command	[2] 7.8.118	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.51
11	Read Remote Extended Features Complete event	[1] 7.7.34	HCI 1a/1 “BR/EDR”		C.220
12	Read Remote Supported Features Complete event	[1] 7.7.11	HCI 1a/1 “BR/EDR”		M
13	Remote Host Supported Features Notification event	[1] 7.7.50	HCI 1a/1 “BR/EDR”		C.106
14	Remote Name Request Complete event	[1] 7.7.7	HCI 1a/1 “BR/EDR”		C.106

Item	Capability	Reference	IUT Configuration	Core Version	Status
15	LE Read All Remote Features command	[8] 7.8.129	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.71
16	LE Read All Remote Features Complete event	[8] 7.7.65.38	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.72

C.3: (Reverse ILD) Mandatory IF LL 1/4 “Peripheral Role” OR LL 1/5 “Central Role”, otherwise Excluded.

C.28: (Reverse ILD) Mandatory IF LL 9/17 “Connectionless CTE Receiver”, otherwise Excluded.

C.51: (Reverse ILD) Mandatory IF LL 9/37 “LE Power Control Request”, otherwise Excluded.

C.71: (Reverse ILD) Mandatory IF (LL 1/4 “Peripheral Role” OR LL 1/5 “Central Role”) AND LL 9/55 “LL Extended Feature Set”, otherwise Optional IF (LL 1/4 “Peripheral Role” OR LL 1/5 “Central Role”), otherwise Excluded.

C.72: Mandatory IF HCI 8/15 “LE Read All Remote Features command”, otherwise Excluded.

C.105: Mandatory IF HCI 8/5a “Read Remote Version Information command on BR/EDR”, otherwise Excluded.

C.106: Mandatory IF HCI 8/1 “Remote Name Request command”, otherwise Excluded.

C.220: (Reverse ILD) Mandatory IF LMP 11/4 “Respond to extended features request”, otherwise Excluded.

Table 9

Item	Capability	Reference	IUT Configuration	Core Version	Status	Inter-Layer Dependency
1	Setup Synchronous Connection command	[1] 7.1.26	HCI 1a/1 “BR/EDR”		C.134	N/A
2	Accept Synchronous Connection Request command	[1] 7.1.27	HCI 1a/1 “BR/EDR”		C.134	N/A
3	Reject Synchronous Connection Request command	[1] 7.1.28	HCI 1a/1 “BR/EDR”		C.134	N/A
4	Read Voice Setting command	[1] 7.3.27	HCI 1a/1 “BR/EDR”		C.134	N/A
5	Write Voice Setting command	[1] 7.3.28	HCI 1a/1 “BR/EDR”		C.134	N/A
6	SCO data via HCI	[1] 5.4.3	HCI 1a/1 “BR/EDR”		C.902	[11] BB 14/1a

Item	Capability	Reference	IUT Configuration	Core Version	Status	Inter-Layer Dependency
7	eSCO data via HCI	[1] 5.4.3	HCI 1a/1 “BR/EDR”		C.903	[11] BB 14/2a
8	Write Default Erroneous Data Reporting command	[1] 7.3.65	HCI 1a/1 “BR/EDR”		C.206	[12] LMP 2a/53a
9	Read Default Erroneous Data Reporting command	[1] 7.3.64	HCI 1a/1 “BR/EDR”		C.112	N/A
10	Enhanced Setup Synchronous Connection command	[1] 7.1.45	HCI 1a/1 “BR/EDR”		C.135	N/A
11	Enhanced Accept Synchronous Connection Request command	[1] 7.1.46	HCI 1a/1 “BR/EDR”		C.135	N/A
12	Synchronous Connection Complete event	[1] 7.7.35	HCI 1a/1 “BR/EDR”		C.134	N/A
13	Synchronous Connection Changed event	[1] 7.7.36	HCI 1a/1 “BR/EDR”		C.134	N/A

C.112: Mandatory IF HCI 9/8 “Write Default Erroneous Data Reporting command”, otherwise Excluded.

C.134: (Reverse ILD) Mandatory IF BB 2/2 “SCO link” OR BB 2/3 “eSCO link”, otherwise Excluded.

C.135: (Reverse ILD) Optional IF BB 2/2 “SCO link” OR BB 2/3 “eSCO link”, otherwise Excluded.

C.206: (Reverse ILD) Mandatory IF BB 14/1 “Erroneous Data Reporting for SCO” OR BB 14/2 “Erroneous Data Reporting for eSCO”, otherwise Excluded.

C.902: (Reverse ILD) Optional IF BB 2/2 “SCO link”, otherwise Excluded.

C.903: (Reverse ILD) Optional IF BB 2/3 “eSCO link”, otherwise Excluded.

Table 10

Item	Capability	Reference	IUT Configuration	Core Version	Status
1	Hold Mode command	[1] 7.2.1	HCI 1a/1 “BR/EDR”		C.213
2	Sniff Mode command	[1] 7.2.2	HCI 1a/1 “BR/EDR”		C.214
3	Exit Sniff Mode command	[1] 7.2.3	HCI 1a/1 “BR/EDR”		C.214
4–5	No longer used	N/A	N/A	N/A	N/A

Item	Capability	Reference	IUT Configuration	Core Version	Status
6	Read Link Policy Settings command	[1] 7.2.9	HCI 1a/1 “BR/EDR”		C.141
7	Write Link Policy Settings command	[1] 7.2.10	HCI 1a/1 “BR/EDR”		C.141
8	Read Default Link Policy Settings command	[1] 7.2.11	HCI 1a/1 “BR/EDR”		C.141
9	Write Default Link Policy Settings command	[1] 7.2.12	HCI 1a/1 “BR/EDR”		C.141
10	Read Hold Mode Activity command	[1] 7.3.33	HCI 1a/1 “BR/EDR”		C.213
11	Write Hold Mode Activity command	[1] 7.3.34	HCI 1a/1 “BR/EDR”		C.213
12	LE Set Data Length command [v1]	[1] 7.8.33	HCI 1a/4 “LE”		C.8
12a	LE Set Data Length command [v2]	[14] 7.8.33	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.161
13	LE Data Length Change event [v1]	[1] 7.7.65.7	HCI 1a/4 “LE”		C.8
13a	LE Data Length Change event [v2]	[14] 7.7.65.7	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.161
14	LE Read Suggested Default Data Length command [v1]	[1] 7.8.34	HCI 1a/4 “LE”		C.8
14a	LE Read Suggested Default Data Length command [v2]	[14] 7.8.34	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.161
15	LE Write Suggested Default Data Length command [v1]	[1] 7.8.35	HCI 1a/4 “LE”		C.8
15a	LE Write Suggested Default Data Length command [v2]	[14] 7.8.35	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.161
16	LE Read Maximum Data Length command [v1]	[1] 7.8.46	HCI 1a/4 “LE”		C.8
16a	LE Read Maximum Data Length command [v2]	[14] 7.8.46	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.161
17	Short Range Mode command	[1] 7.3.77	HCI 1a/3 “AMP”		C.131

Item	Capability	Reference	IUT Configuration	Core Version	Status
18	LE Set Connection CTE Receive Parameters command	[2] 7.8.83	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.25
19	LE Set Connection CTE Transmit Parameters command	[2] 7.8.84	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.26
20	LE Connection CTE Request Enable command	[2] 7.8.85	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.25
21	LE Connection CTE Response Enable command	[2] 7.8.86	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.26
22	LE Connection IQ Report event	[2] 7.7.65.22	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.25
23	LE CTE Request Failed event	[2] 7.7.65.23	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.25
24	LE Periodic Advertising Sync Transfer command	[3] 7.8.89	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.33
25	LE Periodic Advertising Set Info Transfer command	[3] 7.8.90	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.34
26	LE Periodic Advertising Sync Transfer Received event [v1]	[3] 7.7.65.24	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.35
26a	LE Periodic Advertising Sync Transfer Received event [v2]	[3] 7.7.65.24	HCI 1a/4 “LE”	CORE 1a/54 “Controller Core v5.4 or later”	C.68
27	LE Set Periodic Advertising Sync Transfer Parameters command	[3] 7.8.91	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.35
28	LE Set Default Periodic Advertising Sync Transfer Parameters command	[3] 7.8.92	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.35

Item	Capability	Reference	IUT Configuration	Core Version	Status
29	LE Modify Sleep Clock Accuracy command	[3] 7.8.94	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.37
30	LE Create CIS command [v1]	[5] 7.8.99	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.39
30a	LE Create CIS command [v2]	[14] 7.8.99	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.165
31	LE CIS Established event [v1]	[5] 7.7.65.25	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.38
31a	LE CIS Established event [v2]	[5] 7.7.65.25	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.38a
31b	LE CIS Established event [v3]	[14] 7.7.65.25	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.160
32	LE CIS Request event	[5] 7.7.65.26	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.40
33	LE Accept CIS Request command	[5] 7.8.101	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.40
34	LE Reject CIS Request command	[5] 7.8.102	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.40
35	Max Slots Change event	[1] 7.7.27	HCI 1a/1 “BR/EDR”		C.132
36	Mode Change event	[1] 7.7.20	HCI 1a/1 “BR/EDR”		C.144
37	Role Change event	[1] 7.7.18	HCI 1a/1 “BR/EDR”		C.212
38	Connection Packet Type Changed event	[1] 7.7.29	HCI 1a/1 “BR/EDR”		C.133
39	Short Range Mode Change Complete event	[1] 7.7.60	HCI 1a/3 “AMP”		C.131
40	LE Set Data Related Address Changes command	[1] 7.8.122	HCI 1a/4 “LE”	CORE 1a/53 “Controller Core v5.3 or later”	C.910

Item	Capability	Reference	IUT Configuration	Core Version	Status
41	LE Read CIS Update Capabilities command	[14] 7.8.163	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.164
42	LE Set Default CIS Update Parameters command	[14] 7.8.164	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.164
43	LE Add CIG Configuration command	[14] 7.8.165	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.165
44	LE Add CIG Configuration Test command	[14] 7.8.166	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.165
45	LE Remove CIG Configuration command	[14] 7.8.167	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.165
46	LE Update CIG command	[14] 7.8.168	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.164
47	LE Update CIG Test command	[14] 7.8.169	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.164
48	LE CIS Update event	[14] 7.7.65.52	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.164
49	LE Update CIG Peripheral Request Reply command	[14] 7.8.170	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.165
50	LE Update CIG Peripheral Request event	[14] 7.7.65.53	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.165

C.8: (Reverse ILD) Mandatory IF LL 9/6 “LE Data Packet Length Extension”, otherwise Optional.

C.10: No longer used.

C.25: (Reverse ILD) Mandatory IF LL 9/14 “Connection CTE Request”, otherwise Excluded.

C.26: (Reverse ILD) Mandatory IF LL 9/15 “Connection CTE Response”, otherwise Excluded.

C.33: (Reverse ILD) Mandatory IF LL 9/26 “Periodic Advertising Sync Transfer - Sender” AND LL 1/2 “Scanning State”, otherwise Excluded.

C.34: (Reverse ILD) Mandatory IF LL 9/26 “Periodic Advertising Sync Transfer - Sender” AND LL 1/1 “Advertising State”, otherwise Excluded.

C.35: (Reverse ILD) Mandatory IF LL 9/27 “Periodic Advertising Sync Transfer - Recipient”, otherwise Excluded.

C.37: (Reverse ILD) Mandatory IF LL 9/40 “Can Change Sleep Clock Accuracy”, otherwise Excluded.

C.38: (Reverse ILD) Mandatory IF LL 9/31 “Connected Isochronous Stream - Central” OR LL 9/32 “Connected Isochronous Stream - Peripheral”, otherwise Excluded.

C.38a: Optional IF HCI 10/31 “LE CIS Established event [v1]”, otherwise Excluded.

C.39: (Reverse ILD) Mandatory IF LL 9/31 “Connected Isochronous Stream - Central”, otherwise Excluded.

C.40: (Reverse ILD) Mandatory IF LL 9/32 “Connected Isochronous Stream - Peripheral”, otherwise Excluded.

C.68: (Reverse ILD) Mandatory IF LL 4/8a “Scanning for Periodic Advertising with Responses”, otherwise Excluded.

C.131: (Reverse ILD) Mandatory IF 80211PAL 1/11 “Short Range Mode”, otherwise Excluded.

C.132: (Reverse ILD) Mandatory IF BB 5/2 “DM3 packet type” OR BB 5/3 “DH3 packet type” OR BB 5/4 “DM5 packet type” OR BB 5/5 “DH5 packet type” OR LMP 2b/2 “Enhanced Data Rate ACL links (multi-slot)”, otherwise Excluded.

C.133: (Reverse ILD) Mandatory IF BB 5/2 “DM3 packet type” OR BB 5/3 “DH3 packet type” OR BB 5/4 “DM5 packet type” OR BB 5/5 “DH5 packet type” OR BB 6/2 “HV2 packet type” OR BB 6/3 “HV3 packet type” OR BB 2/4 “Enhanced Data Rate ACL links”, otherwise Excluded.

C.141: (Reverse ILD) Mandatory IF LMP 2/6 “Role switch” OR LMP 2/7 “Hold mode” OR LMP 2/8 “Sniff mode”, otherwise Excluded.

C.144: (Reverse ILD) Mandatory IF LMP 2/7 “Hold mode” OR LMP 2/8 “Sniff mode”, otherwise Excluded.

C.160: (Reverse ILD) Mandatory IF LL 9/72 “Connected Isochronous Stream – Parameter Update” OR LL 9/76 “High Data Throughput”, otherwise Optional.

C.161: (Reverse ILD) Mandatory IF LL 9/76 “High Data Throughput”, otherwise Excluded.

C.164: (Reverse ILD) Mandatory IF LL 9/72 “Connected Isochronous Stream – Parameter Update”, otherwise Excluded.

C.165: (Reverse ILD) Mandatory IF LL 9/31 “Connected Isochronous Stream - Central “ AND LL 9/72 “Connected Isochronous Stream – Parameter Update”, otherwise Excluded.

C.212: (Reverse ILD) Mandatory IF LMP 2/6 “Role switch”, otherwise Excluded.

C.213: (Reverse ILD) Mandatory IF LMP 2/7 “Hold mode”, otherwise Excluded.

C.214: (Reverse ILD) Mandatory IF LMP 2/8 “Sniff mode”, otherwise Excluded.

C.910: (Reverse ILD) Mandatory IF LL 9/83 “Data-change-driven RPA updates”, otherwise Optional IF LL 9/13 “LL Privacy”, otherwise Excluded.

Table 11

Item	Capability	Reference	IUT Configuration	Core Version	Status
1	Role Discovery command	[1] 7.2.7	HCI 1a/1 “BR/EDR”		O
2	Switch Role command	[1] 7.2.8	HCI 1a/1 “BR/EDR”		C.212

C.212: (Reverse ILD) Mandatory IF LMP 2/6 “Role switch”, otherwise Excluded.

Table 12

Item	Capability	Reference	IUT Configuration	Core Version	Status	Inter-Layer Dependency
1	Flow Specification command	[1] 7.2.13	HCI 1a/1 “BR/EDR”		M	N/A

Item	Capability	Reference	IUT Configuration	Core Version	Status	Inter-Layer Dependency
2	QoS Setup command	[1] 7.2.6	HCI 1a/1 “BR/EDR”		M	N/A
3	Flush command	[1] 7.3.4	HCI 1a/1 “BR/EDR”		M	N/A
4	Read Automatic Flush Timeout command	[1] 7.3.29	HCI 1a/1 “BR/EDR”		M	N/A
4a	Read Automatic Flush Timeout command	[1] 7.3.29	HCI 1a/4 “LE”	CORE 1a/62 “Controller Core v6.2 or later”	C.86	N/A
5	Write Automatic Flush Timeout command	[1] 7.3.30	HCI 1a/1 “BR/EDR”		M	N/A
5a	Write Automatic Flush Timeout command	[1] 7.3.30	HCI 1a/4 “LE”	CORE 1a/62 “Controller Core v6.2 or later”	C.86	N/A
6	Read Failed Contact Counter command	[1] 7.5.1	HCI 1a/1 “BR/EDR” OR HCI 1a/3 “AMP”		M	N/A
7	Reset Failed Contact Counter command	[1] 7.5.2	HCI 1a/1 “BR/EDR” OR HCI 1a/3 “AMP”		M	N/A
8	Read Num Broadcast Retransmissions command	[1] 7.3.31	HCI 1a/1 “BR/EDR”		C.118	N/A
9	Write Num Broadcast Retransmissions command	[1] 7.3.32	HCI 1a/1 “BR/EDR”		O	N/A
10	Enhanced Flush command	[1] 7.3.66	HCI 1a/1 “BR/EDR” OR HCI 1a/3 “AMP”		M	[11] BB 16/1a
11–16	No longer used	N/A	N/A	N/A	N/A	N/A
17	Sniff Subrating command	[1] 7.2.14	HCI 1a/1 “BR/EDR”		C.221	N/A
18	Sniff Subrating event	[1] 7.7.37	HCI 1a/1 “BR/EDR”		C.221	N/A
19	Flow Spec Modify command	[1] 7.1.44	HCI 1a/3 “AMP”		M	N/A
20	Read Best Effort Flush Timeout command	[1] 7.3.75	HCI 1a/3 “AMP”		M	N/A

Item	Capability	Reference	IUT Configuration	Core Version	Status	Inter-Layer Dependency
21	Write Best Effort Flush Timeout command	[1] 7.3.76	HCI 1a/3 “AMP”		M	N/A
22	Flush Occurred event	[1] 7.7.17	HCI 1a/1 “BR/EDR” OR HCI 1a/3 “AMP”		M	N/A
23	Enhanced Flush Complete event	[1] 7.7.47	HCI 1a/1 “BR/EDR” OR HCI 1a/3 “AMP”		M	N/A
24	Flow Specification Complete event	[1] 7.7.32	HCI 1a/1 “BR/EDR”		M	N/A
25	Flow Spec Modify Complete event	[1] 7.7.58	HCI 1a/3 “AMP”		M	N/A
26	QoS Setup Complete event	[1] 7.7.13	HCI 1a/1 “BR/EDR”		M	N/A
27	QoS Violation event	[1] 7.7.30	HCI 1a/1 “BR/EDR” OR HCI 1a/3 “AMP”		M	N/A

C.86: (Reverse ILD) Mandatory IF LL 9/70 “LE Flushable ACL Data”, otherwise Excluded.

C.118: Mandatory IF HCI 12/9 “Write Num Broadcast Retransmissions command”, otherwise Excluded.

C.221: (Reverse ILD) Mandatory IF LMP 16/7 “Sniff Subrating Mode”, otherwise Excluded.

Table 13

Item	Capability	Reference	IUT Configuration	Core Version	Status	Inter-Layer Dependency
1	No longer used	N/A	N/A	N/A	N/A	N/A
1a	Read Link Supervision Timeout command on BR/EDR	[1] 7.3.41	HCI 1a/1 “BR/EDR”		C.117	N/A
1b	Read Link Supervision Timeout command on AMP	[1] 7.3.41	HCI 1a/3 “AMP”		M	N/A
2	No longer used	N/A	N/A	N/A	N/A	N/A
2a	Write Link Supervision Timeout command on BR/EDR	[1] 7.3.42	HCI 1a/1 “BR/EDR”		O	N/A

Item	Capability	Reference	IUT Configuration	Core Version	Status	Inter-Layer Dependency
2b	Write Link Supervision Timeout command on AMP	[1] 7.3.42	HCI 1a/3 “AMP”		M	N/A
3	Read AFH Channel Assessment Mode command	[1] 7.3.53	HCI 1a/1 “BR/EDR”		C.140	N/A
3a	Read AFH Channel Assessment Mode command	[6] 7.3.53	HCI 1a/4 “LE”	CORE 1a/53 “Controller Core v5.3 or later”	C.58	N/A
4	Write AFH Channel Assessment Mode command	[1] 7.3.54	HCI 1a/1 “BR/EDR”		C.140	N/A
4a	Write AFH Channel Assessment Mode command	[6] 7.3.54	HCI 1a/4 “LE”	CORE 1a/53 “Controller Core v5.3 or later”	C.58	N/A
5	Set AFH Host Channel Classification command	[1] 7.3.46	HCI 1a/1 “BR/EDR”		C.140	N/A
6	Change Connection Packet Type command	[1] 7.1.14	HCI 1a/1 “BR/EDR”		C.133	N/A
7	Link Supervision Timeout Changed event	[1] 7.7.46	HCI 1a/1 “BR/EDR”		M	[12] LMP 2a/56a
8	LE Set Host Channel Classification command	[1] 7.8.19	HCI 1a/4 “LE”		C.36	N/A
9	LE Read PHY command	[2] 7.8.47	HCI 1a/4 “LE”		C.11	N/A
10	LE Set Default PHY command	[2] 7.8.48	HCI 1a/4 “LE”		C.11	N/A
11	LE Set PHY command	[2] 7.8.49	HCI 1a/4 “LE”		C.11	N/A

Item	Capability	Reference	IUT Configuration	Core Version	Status	Inter-Layer Dependency
12	LE PHY Update Complete event	[2] 7.7.65.12	HCI 1a/4 “LE”		C.11	N/A
13	Physical Link Loss Early Warning event	[1] 7.7.54	HCI 1a/3 “AMP”		O	N/A
14	Physical Link Recovery event	[1] 7.7.55	HCI 1a/3 “AMP”		C.149	N/A
15	LE Frame Space Update command	[8] 7.8.151	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.79	N/A
16	LE Frame Space Update Complete event	[8] 7.7.65.48	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.79	N/A

C.11: (Reverse ILD) Mandatory IF LL 9/6a “Multiple PHYs”, otherwise Optional.

C.36: (Reverse ILD) Mandatory IF LL 9/44 “Channel Classification” OR LL 1/5 “Central Role”, otherwise Optional IF (LL 9/41 “LE Extended Advertising” AND LL 1/1 “Advertising State”) OR LL 9/33 “Isochronous Broadcaster on the GFSK PHYs”, otherwise Excluded.

C.58: (Reverse ILD) Mandatory IF LL 9/44 “Channel Classification”, otherwise Excluded.

C.79: (Reverse ILD) Mandatory IF LL 9/54 “Frame Space Update”, otherwise Excluded.

C.117: Mandatory IF HCI 13/2a “Write Link Supervision Timeout command on BR/EDR”, otherwise Excluded.

C.133: (Reverse ILD) Mandatory IF BB 5/2 “DM3 packet type” OR BB 5/3 “DH3 packet type” OR BB 5/4 “DM5 packet type” OR BB 5/5 “DH5 packet type” OR BB 6/2 “HV2 packet type” OR BB 6/3 “HV3 packet type” OR BB 2/4 “Enhanced Data Rate ACL links”, otherwise Excluded.

C.140: (Reverse ILD) Mandatory IF LMP 26/1 “AFH capable Central” OR LMP 26/4 “AFH classification Peripheral” OR LMP 26/4a “AFH classification Central”, otherwise Optional IF BB 3a/1 “Connectionless Peripheral Broadcast Transmitter”, otherwise Excluded.

C.149: Optional IF HCI 13/13 “Physical Link Loss Early Warning event”, otherwise Excluded.

Table 14

Item	Capability	Reference	IUT Configuration	Core Version	Status
1	Host Buffer Size command [v1] on BR/EDR	[1] 7.3.39			C.107
1a	Host Buffer Size command [v1] on LE	[1] 7.3.39			C.107
1b	Host Buffer Size command [v2] on BR/EDR	[1] 7.3.39			C.911

Item	Capability	Reference	IUT Configuration	Core Version	Status
1c	Host Buffer Size command [v2] on LE	[1] 7.3.39			C.225
2	Set Event Mask command	[1] 7.3.1			M
3	Set Event Filter command	[1] 7.3.3	HCI 1a/1 “BR/EDR”		C.148
4	Set Controller to Host Flow Control command	[1] 7.3.38			C.96a
5	Host Number of Completed Packets command	[1] 7.3.40			C.107
6	Read Synchronous Flow Control Enable command	[1] 7.3.36	HCI 1a/1 “BR/EDR”		C.122
7	Write Synchronous Flow Control Enable command	[1] 7.3.37	HCI 1a/1 “BR/EDR”		C.135
8	Set Event Mask Page 2 command	[1] 7.3.69			O
9–11	No longer used	N/A	N/A	N/A	N/A
12	Number of Completed Packets event	[1] 7.7.19			C.3a
13	Data Buffer Overflow event	[1] 7.7.26			O
14	LE Set Event Mask command [v1]	[1] 7.8.1	HCI 1a/4 “LE”		M
14a	LE Set Event Mask command [v2]	[13] 7.8.1	HCI 1a/4 “LE”	CORE 1a/63 “Controller Core v6.3 or later”	C.222
15	Read LE Host Support command	[1] 7.3.78	HCI 1a/1 “BR/EDR”		C.116
16	Write LE Host Support command	[1] 7.3.79	HCI 1a/1 “BR/EDR”		C.153
17	LE Add Device To Periodic Advertiser List command	[2] 7.8.70	HCI 1a/4 “LE”		C.21
18	LE Remove Device From Periodic Advertiser List command	[2] 7.8.71	HCI 1a/4 “LE”		C.21
19	LE Clear Periodic Advertiser List command	[2] 7.8.72	HCI 1a/4 “LE”		C.21
20	LE Read Periodic Advertiser List Size command	[2] 7.8.73	HCI 1a/4 “LE”		C.21

Item	Capability	Reference	IUT Configuration	Core Version	Status
21	Data Block Based Flow Control	[1] 4.1.2	HCI 1a/1 “BR/EDR” OR HCI 1a/3 “AMP”		O
22	Number of Completed Data Blocks event	[1] 7.7.59	HCI 1a/1 “BR/EDR” OR HCI 1a/3 “AMP”		C.124
23	Separate BR/EDR and LE Data Buffers	[1] 1.1	(HCI 1a/1 “BR/EDR” OR HCI 1a/3 “AMP”) AND HCI 1a/4 “LE”		O
24	Events with a bit number of 64 or above	[13] 7.8.1	HCI 1a/4 “LE”	CORE 1a/63 “Controller Core v6.3 or later”	C.906

C.3a: (Reverse ILD) Mandatory IF HCI 1a/1 “BR/EDR Controller” OR HCI 1a/3 “AMP Controller” OR LL 1/4 “Peripheral Role” OR LL 1/5 “Central Role”, otherwise Excluded.

C.21: (Reverse ILD) Mandatory IF LL 11/1 “Synchronizing to Periodic Advertising”, otherwise Excluded.

C.96a: (Reverse ILD) Optional IF HCI 1a/1 “BR/EDR Controller” OR HCI 1a/3 “AMP Controller” OR LL 1/4 “Peripheral Role” OR LL 1/5 “Central Role”, otherwise Excluded.

C.107: Mandatory IF HCI 14/4 “Set Controller to Host Flow Control command”, otherwise Excluded.

C.116: Mandatory IF HCI 14/16 “Write LE Host Support command”, otherwise Excluded.

C.122: Mandatory IF HCI 14/7 “Write Synchronous Flow Control Enable command”, otherwise Excluded.

C.124: Mandatory IF HCI 14/21 “Data Block Based Flow Control”, otherwise Excluded.

C.135: (Reverse ILD) Optional IF BB 2/2 “SCO link” OR BB 2/3 “eSCO link”, otherwise Excluded.

C.148: Optional IF HCI 7/45 “Connection Complete event” OR HCI 7/44 “Connection Request event” OR HCI 6/46 “Extended Inquiry Result event” OR HCI 6/47 “Inquiry Result with RSSI event” OR HCI 16/54 “IO Capability Request event” OR HCI 9/12 “Synchronous Connection Complete event”, otherwise Excluded.

C.153: Mandatory IF HCI 1a/4 “LE Controller”, otherwise Optional.

C.222: Mandatory IF HCI 14/24 “Events with a bit number of 64 or above”, otherwise Optional.

C.225: (Reverse ILD) Optional IF HCI 14/4 “Set Controller to Host Flow Control command” AND (LL 9/31 “Connected Isochronous Stream - Central” OR LL 9/32 “Connected Isochronous Stream - Peripheral” OR LL 9/34 “Synchronized Receiver on the GFSK PHYs”), otherwise Excluded.

C.906: Excluded until HCI LE events are assigned with a bit number of 64 or above.

C.911: Optional IF HCI 14/1 “Host Buffer Size command [v1] on BR/EDR”, otherwise Excluded.

Table 15

Item	Capability	Reference	IUT Configuration	Core Version	Status
1	Read LMP Handle command	[1] 7.1.25	HCI 1a/1 “BR/EDR”		C.134
2	No longer used	N/A	N/A	N/A	N/A
2a	Read Enhanced Transmit Power Level command	[1] 7.3.74	HCI 1a/1 “BR/EDR”		C.217
2b	Read Transmit Power Level command on BR/EDR	[1] 7.3.35	HCI 1a/1 “BR/EDR”		C.152
2c	Read Transmit Power Level command on LE	[1] 7.3.35	HCI 1a/4 “LE”		C.3

Item	Capability	Reference	IUT Configuration	Core Version	Status
3	No longer used	N/A	N/A	N/A	N/A
3a	Read Link Quality command on BR/EDR	[1] 7.5.3	HCI 1a/1 “BR/EDR”		O
3b	Read Link Quality command on AMP	[1] 7.5.3	HCI 1a/3 “AMP”		O
4	No longer used	N/A	N/A	N/A	N/A
4a	Read RSSI command on BR/EDR	[1] 7.5.4	HCI 1a/1 “BR/EDR”		O
4b	Read RSSI command on AMP	[1] 7.5.4	HCI 1a/3 “AMP”		O
4c	Read RSSI command on LE	[1] 7.5.4	HCI 1a/4 “LE”		C.3
5	Read Clock Offset command	[1] 7.1.24	HCI 1a/1 “BR/EDR”		O
6	Read Clock command	[1] 7.5.6	HCI 1a/1 “BR/EDR”		O
7	Read AFH Channel Map command	[1] 7.5.5	HCI 1a/1 “BR/EDR”		C.139
8	LE Read Channel Map command	[1] 7.8.20	HCI 1a/4 “LE”		C.3
9	LE Read ISO Link Quality command	[5] 7.8.116	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.50
10	Read Clock Offset Complete event	[1] 7.7.28	HCI 1a/1 “BR/EDR”		C.104

C.3: (Reverse ILD) Mandatory IF LL 1/4 “Peripheral Role” OR LL 1/5 “Central Role”, otherwise Excluded.

C.50: (Reverse ILD) Optional IF LL 9/31 “Connected Isochronous Stream - Central” OR LL 9/32 “Connected Isochronous Stream - Peripheral” OR LL 9/34 “Synchronized Receiver on the GFSK PHYs”, otherwise Excluded.

C.104: Mandatory IF HCI 15/5 “Read Clock Offset command”, otherwise Excluded.

C.134: (Reverse ILD) Mandatory IF BB 2/2 “SCO link” OR BB 2/3 “eSCO link”, otherwise Excluded.

C.139: (Reverse ILD) Mandatory IF LMP 26/1 “AFH capable Central” OR LMP 26/2 “AFH capable Peripheral”, otherwise Excluded.

C.152: (Reverse ILD) Mandatory IF LMP 2/10 “Power Control”, otherwise Optional.

C.217: (Reverse ILD) Mandatory IF LMP 2/20 “Enhanced Power Control”, otherwise Excluded.

Table 16

Item	Capability	Reference	IUT Configuration	Core Version	Status
1	Read Authentication Enable command	[1] 7.3.23	HCI 1a/1 “BR/EDR”		C.111
2	Write Authentication Enable command	[1] 7.3.24	HCI 1a/1 “BR/EDR”		O
3–4	No longer used	N/A	N/A	N/A	N/A

Item	Capability	Reference	IUT Configuration	Core Version	Status
5	Link Key Request Reply command	[1] 7.1.10	HCI 1a/1 “BR/EDR”		M
6	Link Key Request Negative Reply command	[1] 7.1.11	HCI 1a/1 “BR/EDR”		M
7	PIN Code Request Reply command	[1] 7.1.12	HCI 1a/1 “BR/EDR”		M
8	PIN Code Request Negative Reply command	[1] 7.1.13	HCI 1a/1 “BR/EDR”		M
9	Authentication Requested command	[1] 7.1.15	HCI 1a/1 “BR/EDR”		O
10	Set Connection Encryption command	[1] 7.1.16	HCI 1a/1 “BR/EDR”		M
11	Change Connection Link Key command	[1] 7.1.17	HCI 1a/1 “BR/EDR”		O
12	Link Key Selection command	[1] 7.1.18	HCI 1a/1 “BR/EDR”		C.215
13	Read PIN Type command	[1] 7.3.5	HCI 1a/1 “BR/EDR”		C.120
14	Write PIN Type command	[1] 7.3.6	HCI 1a/1 “BR/EDR”		O
15	Read Stored Link Key command	[1] 7.3.8	HCI 1a/1 “BR/EDR”		C.121
16	Write Stored Link Key command	[1] 7.3.9	HCI 1a/1 “BR/EDR”		O
17	Delete Stored Link Key command	[1] 7.3.10	HCI 1a/1 “BR/EDR”		C.121
18	Create New Unit Key command	[1] 7.3.7	HCI 1a/1 “BR/EDR”	CORE 1b/50 “Controller Core v5.0 or earlier”	O
19	User Confirmation Request Reply command	[1] 7.1.30	HCI 1a/1 “BR/EDR”		M
20	User Confirmation Request Negative Reply command	[1] 7.1.31	HCI 1a/1 “BR/EDR”		M
21	User Passkey Request Reply command	[1] 7.1.32	HCI 1a/1 “BR/EDR”		M
22	User Passkey Request Negative Reply command	[1] 7.1.33	HCI 1a/1 “BR/EDR”		M
23	IO Capability Request Reply command	[1] 7.1.29	HCI 1a/1 “BR/EDR”		M

Item	Capability	Reference	IUT Configuration	Core Version	Status
23a	IO Capability Request Negative Reply command	[1] 7.1.36	HCI 1a/1 “BR/EDR”		M
24	No longer used	N/A	N/A	N/A	N/A
24a	Remote OOB Data Request Reply command	[1] 7.1.34	HCI 1a/1 “BR/EDR”		M
25	Remote OOB Data Request Negative Reply command	[1] 7.1.35	HCI 1a/1 “BR/EDR”		M
26	Read Local OOB Data command	[1] 7.3.60	HCI 1a/1 “BR/EDR”		M
27	Write Simple Pairing Mode command	[1] 7.3.59	HCI 1a/1 “BR/EDR”		M
28	Read Simple Pairing Mode command	[1] 7.3.58	HCI 1a/1 “BR/EDR”		M
29	Refresh Encryption Key command [v1]	[1] 7.3.57	HCI 1a/1 “BR/EDR”		M
29a	Refresh Encryption Key command [v2] on BR/EDR	[1] 7.3.57	HCI 1a/1 “BR/EDR”		O
29b	Refresh Encryption Key command [v2] on LE	[1] 7.3.57	HCI 1a/4 “LE”		C.163
30	Read Encryption Key Size command	[1] 7.5.7	HCI 1a/1 “BR/EDR”		M
31	Send Keypress Notification command	[1] 7.3.63	HCI 1a/1 “BR/EDR”		M
32	LE Encrypt command	[1] 7.8.22	HCI 1a/4 “LE”		C.4
33	LE Rand command	[1] 7.8.23	HCI 1a/4 “LE”		C.4
34	LE Long Term Key Request Reply command	[1] 7.8.25	HCI 1a/4 “LE”		C.61
35	LE Enable Encryption command [v1]	[1] 7.8.24	HCI 1a/4 “LE”		C.60
35a	LE Enable Encryption command [v2]	[1] 7.8.24	HCI 1a/4 “LE”		C.162
36	LE Long Term Key Request event	[1] 7.7.65.5	HCI 1a/4 “LE”		C.61
37	No longer used	N/A	N/A	N/A	N/A
37a	Encryption Change event [v1] on BR/EDR	[1] 7.7.8	HCI 1a/1 “BR/EDR”		M
37b	Encryption Change event [v1] on LE	[1] 7.7.8	HCI 1a/4 “LE”		C.4
37c	Encryption Change event [v2] on BR/EDR	[1] 7.7.8	HCI 1a/1 “BR/EDR”		C.158

Item	Capability	Reference	IUT Configuration	Core Version	Status
37d	Encryption Change event [v2] on LE	[1] 7.7.8	HCI 1a/4 “LE”		C.4a
37e	Encryption Change event [v3] on BR/EDR	[1] 7.7.8	HCI 1a/1 “BR/EDR”	CORE 1a/70 “Controller Core v7.0 or later”	O
37f	Encryption Change event [v3] on LE	[1] 7.7.8	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.162
38	No longer used	N/A	N/A	N/A	N/A
38a	Encryption Key Refresh Complete event [v1] on BR/EDR	[1] 7.7.39	HCI 1a/1 “BR/EDR”		M
38b	Encryption Key Refresh Complete event [v1] on LE	[1] 7.7.39	HCI 1a/4 “LE”		C.4
38c	Encryption Key Refresh Complete event [v2] on BR/EDR	[1] 7.7.39	HCI 1a/1 “BR/EDR”	CORE 1a/70 “Controller Core v7.0 or later”	O
38d	Encryption Key Refresh Complete event [v2] on LE	[1] 7.7.39	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.162
39	LE Long Term Key Request Negative Reply command	[1] 7.8.26	HCI 1a/4 “LE”		C.61
40	Link Key Notification event	[1] 7.7.24	HCI 1a/1 “BR/EDR”		M
41	Read Secure Connections Host Support command	[1] 7.3.91	HCI 1a/1 “BR/EDR”		C.218
42	Write Secure Connections Host Support command	[1] 7.3.92	HCI 1a/1 “BR/EDR”		C.218
43	Remote OOB Extended Data Request Reply command	[1] 7.1.53	HCI 1a/1 “BR/EDR”		C.142
44	Read Local OOB Extended Data command	[1] 7.3.95	HCI 1a/1 “BR/EDR”		C.142
45	Write Secure Connections Test Mode command	[1] 7.6.8	HCI 1a/1 “BR/EDR”		C.138
46	No longer used	N/A	N/A	N/A	N/A

Item	Capability	Reference	IUT Configuration	Core Version	Status
46a	Authenticated Payload Timeout Expired event on BR/EDR	[1] 7.7.75	HCI 1a/1 “BR/EDR”		C.155a
46b	Authenticated Payload Timeout Expired event on LE	[1] 7.7.75	HCI 1a/4 “LE”		C.155b
47	No longer used	N/A	N/A	N/A	N/A
47a	Read Authenticated Payload Timeout command on BR/EDR	[1] 7.3.93	HCI 1a/1 “BR/EDR”		C.155a
47b	Read Authenticated Payload Timeout command on LE	[1] 7.3.93	HCI 1a/4 “LE”		C.155b
48	No longer used	N/A	N/A	N/A	N/A
48a	Write Authenticated Payload Timeout command on BR/EDR	[1] 7.3.94	HCI 1a/1 “BR/EDR”		C.151
48b	Write Authenticated Payload Timeout command on LE	[1] 7.3.94	HCI 1a/4 “LE”		C.7
49	No longer used	N/A	N/A	N/A	N/A
50	LE Read Local P-256 Public Key command	[1] 7.8.36	HCI 1a/4 “LE”		C.82
51	LE Generate DHKey command [v1]	[1] 7.8.37	HCI 1a/4 “LE”		O
51a	LE Generate DHKey command [v2]	[3] 7.8.37	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.909
52	LE Read Local P-256 Public Key Complete event	[1] 7.7.65.8	HCI 1a/4 “LE”		C.80
53	LE Generate DHKey Complete event	[1] 7.7.65.9	HCI 1a/4 “LE”		C.81
54	IO Capability Request event	[1] 7.7.40	HCI 1a/1 “BR/EDR”		M
55	IO Capability Response event	[1] 7.7.41	HCI 1a/1 “BR/EDR”		M
56	Link Key Request event	[1] 7.7.23	HCI 1a/1 “BR/EDR”		M
57	Return Link Keys event	[1] 7.7.21	HCI 1a/1 “BR/EDR”		C.121
58	Change Connection Link Key Complete event	[1] 7.7.9	HCI 1a/1 “BR/EDR”		C.102

Item	Capability	Reference	IUT Configuration	Core Version	Status
59	Link Key Type Changed event	[1] 7.7.10	HCI 1a/1 “BR/EDR”		C.215
60	Keypress Notification event	[1] 7.7.49	HCI 1a/1 “BR/EDR”		M
61	PIN Code Request event	[1] 7.7.22	HCI 1a/1 “BR/EDR”		M
62	Remote OOB Data Request event	[1] 7.7.44	HCI 1a/1 “BR/EDR”		M
63	User Passkey Request event	[1] 7.7.43	HCI 1a/1 “BR/EDR”		M
64	User Passkey Notification event	[1] 7.7.48	HCI 1a/1 “BR/EDR”		M
65	User Confirmation Request event	[1] 7.7.42	HCI 1a/1 “BR/EDR”		M
66	Authentication Complete event	[1] 7.7.6	HCI 1a/1 “BR/EDR”		C.101
67	Simple Pairing Complete event	[1] 7.7.45	HCI 1a/1 “BR/EDR”		M
68	Set Min Encryption Key Size command	[6] 7.3.102	HCI 1a/1 “BR/EDR”	CORE 1a/53 “Controller Core v5.3 or later”	O
69	HCI_Read_ Encryption_Key_ Debug_Reporting_ Mode	[14] 7.6.9	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.93
70	HCI_Write_ Encryption_Key_ Debug_Reporting_ Mode	[14] 7.6.10	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	O
71	HCI_Encryption_ Key_Debug_ Report Event	[14] 7.7.77	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.93
72	LE Read Encryption Key Schedule Debug Mode command	[1] 7.8.161	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.163
73	LE Write Encryption Key Schedule Debug Mode command	[1] 7.8.162	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.163

C.4: (Reverse ILD) Mandatory IF LL 9/1 “LE Encryption with Diversifiers”, otherwise Excluded.

C.4a: Optional IF HCI 16/37b “Encryption Change event [v1] on LE”, otherwise Excluded.

C.7: (Reverse ILD) Mandatory IF LL 9/1 “LE Encryption with Diversifiers” AND LL 9/2 “LE Ping”, otherwise Excluded.

C.60: (Reverse ILD) Mandatory IF LL 1/5 “Central Role” AND LL 9/1 “LE Encryption with Diversifiers”, otherwise Excluded.

C.61: (Reverse ILD) Mandatory IF LL 1/4 “Peripheral Role” AND LL 9/1 “LE Encryption with Diversifiers”, otherwise Excluded.

C.80: Mandatory IF HCI 16/50 “LE Read Local P-256 Public Key command”, otherwise Excluded.

C.81: Mandatory IF HCI 16/51 “LE Generate DHKey command [v1]”, otherwise Excluded.

C.82: Mandatory IF HCI 16/51 “LE Generate DHKey command [v1]”, otherwise Optional.

C.93: Mandatory IF HCI 16/70 “HCI_Write_Encryption_Key_Debug_Reporting_Mode”, otherwise Excluded.

C.101: Mandatory IF HCI 16/9 “Authentication Requested command”, otherwise Excluded.

C.102: Mandatory IF HCI 16/11 “Change Connection Link Key command”, otherwise Excluded.

C.111: Mandatory IF HCI 16/2 “Write Authentication Enable command”, otherwise Excluded.

C.120: Mandatory IF HCI 16/14 “Write PIN Type command”, otherwise Excluded.

C.121: Mandatory IF HCI 16/16 “Write Stored Link Key command”, otherwise Excluded.

C.138: (Reverse ILD) Mandatory IF LMP 2/26 “Secure Connections”, otherwise Optional IF BB 2/3 “eSCO link”, otherwise Excluded.

C.142: (Reverse ILD) Mandatory IF LMP 2/26 “Secure Connections” OR LMP 2/19b “Secure Simple Pairing (Controller Support)”, otherwise Excluded.

C.151: (Reverse ILD) Mandatory IF LMP 2/26 “Secure Connections” AND LMP 2/27 “Ping”, otherwise Excluded.

C.155a: Mandatory IF HCI 16/48a “Write Authenticated Payload Timeout command on BR/EDR”, otherwise Optional.

C.155b: Mandatory IF HCI 16/48b “Write Authenticated Payload Timeout command on LE”, otherwise Optional.

C.158: Mandatory IF HCI 16/68 “Set Min Encryption Key Size command”, otherwise Optional.

C.162: (Reverse ILD) Mandatory IF LL 9/77 “Encryption Key Schedule”, otherwise Optional.

C.163: (Reverse ILD) Mandatory IF LL 9/77 “Encryption Key Schedule”, otherwise Excluded.

C.215: (Reverse ILD) Mandatory IF LMP 2/14 “Broadcast encryption”, otherwise Excluded.

C.218: (Reverse ILD) Mandatory IF LMP 2/26 “Secure Connections”, otherwise Excluded.

C.909: Optional IF HCI 16/51 “LE Generate DHKey command [v1]”, otherwise Excluded.

Table 17

Item	Capability	Reference	IUT Configuration	Core Version	Status
1	Read Loopback Mode command	[1] 7.6.1	HCI 1a/1 “BR/EDR”		C.123
2	Write Loopback Mode command	[1] 7.6.2	HCI 1a/1 “BR/EDR”		C.123
3	No longer used	N/A	N/A	N/A	N/A
3a	Enable Device Under Test Mode command on BR/EDR	[1] 7.6.3	HCI 1a/1 “BR/EDR”		C.123
3b	Enable Device Under Test Mode command on AMP	[1] 7.6.3	HCI 1a/3 “AMP”		C.130
4	Write Simple Pairing Debug Mode command	[1] 7.6.4	HCI 1a/1 “BR/EDR”		M
5	AMP Test command	[1] 7.6.7	HCI 1a/3 “AMP”		C.130

Item	Capability	Reference	IUT Configuration	Core Version	Status
5a	Enable AMP Receiver Reports command	[1] 7.6.5	HCI 1a/3 “AMP”		C.130
6	AMP Test End command	[1] 7.6.6	HCI 1a/3 “AMP”		C.130
7	LE Receiver Test command [v1]	[1] 7.8.28	HCI 1a/4 “LE”		C.2
8	LE Transmitter Test command [v1]	[1] 7.8.29	HCI 1a/4 “LE”		C.1
9	LE Test End command [v1]	[1] 7.8.30	HCI 1a/4 “LE”		M
9a	LE Test End command [v2]	[14] 7.8.30	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.161
10	LE Receiver Test command [v2]	[2] 7.8.28	HCI 1a/4 “LE”		C.13
11	LE Transmitter Test command [v2]	[2] 7.8.29	HCI 1a/4 “LE”		C.12
12	LE Receiver Test command [v3]	[3] 7.8.28	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.30
13	LE Transmitter Test command [v3]	[3] 7.8.29	HCI 1a/4 “LE”	CORE 1a/51 “Controller Core v5.1 or later”	C.29
14	LE ISO Transmit Test command	[5] 7.8.111	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.45
15	LE ISO Receive Test command	[5] 7.8.112	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.46
16	LE ISO Read Test Counters command	[5] 7.8.113	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.46
17	LE ISO Test End command	[5] 7.8.114	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.47
18	LE Transmitter Test command [v4]	[5] 7.8.29	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.51
19	AMP Start Test event	[1] 7.7.62	HCI 1a/3 “AMP”		C.130
20	AMP Receiver Report event	[1] 7.7.64	HCI 1a/3 “AMP”		C.130

Item	Capability	Reference	IUT Configuration	Core Version	Status
21	AMP Test End event	[1] 7.7.63	HCI 1a/3 “AMP”		C.130
22	Loopback command event	[1] 7.7.25	HCI 1a/1 “BR/EDR”		C.123
23	LE Enable UTP OTA mode command	[10] 7.8.152	HCI 1a/4 “LE”	CORE 1a/62 “Controller Core v6.2 or later”	C.80
24	LE UTP Send command	[10] 7.8.153	HCI 1a/4 “LE”	CORE 1a/62 “Controller Core v6.2 or later”	C.81
25	LE UTP Receive event	[10] 7.7.65.49	HCI 1a/4 “LE”	CORE 1a/62 “Controller Core v6.2 or later”	C.81
26	LE Receiver Test command [v4]	[14] 7.8.28	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.207
27	LE Test Report HDT Link Quality event	[14] 7.7.65.51	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.207
28	LE Transmitter Test command [v5]	[14] 7.8.29	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.208

C.1: (Reverse ILD) Mandatory IF RFPHY 0/1 “LE Transmitter”, otherwise Excluded.

C.2: (Reverse ILD) Mandatory IF RFPHY 0/2 “LE Receiver”, otherwise Excluded.

C.12: (Reverse ILD) Mandatory IF LL 9/6a “Multiple PHYs” OR RFPHY 1/5 “Stable Modulation Index – Transmitter”, otherwise Excluded.

C.13: (Reverse ILD) Mandatory IF LL 9/6a “Multiple PHYs” OR RFPHY 1/6 “Stable Modulation Index – Receiver”, otherwise Excluded.

C.29: (Reverse ILD) Mandatory IF LL 9/15 “Connection CTE Response” OR LL 9/16 “Connectionless CTE Transmitter”, otherwise Excluded.

C.30: (Reverse ILD) Mandatory IF LL 9/14 “Connection CTE Request” OR LL 9/17 “Connectionless CTE Receiver”, otherwise Excluded.

C.45: (Reverse ILD) Mandatory IF LL 9/31 “Connected Isochronous Stream - Central” OR LL 9/32 “Connected Isochronous Stream - Peripheral” OR LL 9/33 “Isochronous Broadcaster on the GFSK PHYs”, otherwise Excluded.

C.46: (Reverse ILD) Mandatory IF LL 9/31 “Connected Isochronous Stream - Central” OR LL 9/32 “Connected Isochronous Stream - Peripheral” OR LL 9/34 “Synchronized Receiver on the GFSK PHYs”, otherwise Excluded.

C.47: (Reverse ILD) Mandatory IF LL 9/31 “Connected Isochronous Stream - Central” OR LL 9/32 “Connected Isochronous Stream - Peripheral” OR LL 9/33 “Isochronous Broadcaster on the GFSK PHYs” OR LL 9/34 “Synchronized Receiver on the GFSK PHYs”, otherwise Excluded.

C.51: (Reverse ILD) Mandatory IF LL 9/37 “LE Power Control Request”, otherwise Excluded.

C.80: (Reverse ILD) Mandatory IF LL 9/63 “UTP OTA mode”, otherwise Excluded.

C.81: (Reverse ILD) Mandatory IF LL 9/64 “UTP HCI mode”, otherwise Excluded.

C.123: (Reverse ILD) Mandatory IF LMP 25/1 “Activate test mode”, otherwise Excluded.

C.130: (Reverse ILD) Mandatory IF A2MP 1/2 “AMP Test Mode”, otherwise Excluded.

C.161: (Reverse ILD) Mandatory IF LL 9/76 “High Data Throughput”, otherwise Excluded.

C.207: (Reverse ILD) Mandatory IF LL 9/76 “High Data Throughput”, otherwise Optional IF RFPHY 0/2 “LE Receiver”, otherwise Excluded.

C.208: (Reverse ILD) Mandatory IF LL 9/76 “High Data Throughput”, otherwise Optional IF RFPHY 0/1 “LE Transmitter”, otherwise Excluded.

Table 18

Item	Capability	Reference	IUT Configuration	Core Version	Status
1	Set Connectionless Peripheral Broadcast command	[1] 7.1.49	HCI 1a/1 “BR/EDR”		C.201
2	Set Connectionless Peripheral Broadcast Receive command	[1] 7.1.50	HCI 1a/1 “BR/EDR”		C.202
3	Start Synchronization Train command	[1] 7.1.51	HCI 1a/1 “BR/EDR”		C.201
4	Receive Synchronization Train command	[1] 7.1.52	HCI 1a/1 “BR/EDR”		C.202
5	Set Reserved LT_ADDR command	[1] 7.3.86	HCI 1a/1 “BR/EDR”		C.201
6	Delete Reserved LT_ADDR command	[1] 7.3.87	HCI 1a/1 “BR/EDR”		C.201
7	Set Connectionless Peripheral Broadcast Data command	[1] 7.3.88	HCI 1a/1 “BR/EDR”		C.201
8	Write Synchronization Train Parameters command	[1] 7.3.90	HCI 1a/1 “BR/EDR”		C.201
9	Read Synchronization Train Parameters command	[1] 7.3.89	HCI 1a/1 “BR/EDR”		C.201
10	Synchronization Train Complete event	[1] 7.7.67	HCI 1a/1 “BR/EDR”		C.201
11	Synchronization Train Received event	[1] 7.7.68	HCI 1a/1 “BR/EDR”		C.202
12	Connectionless Peripheral Broadcast Receive event	[1] 7.7.69	HCI 1a/1 “BR/EDR”		C.202

Item	Capability	Reference	IUT Configuration	Core Version	Status
13	Connectionless Peripheral Broadcast Timeout event	[1] 7.7.70	HCI 1a/1 “BR/EDR”		C.202
14	Connectionless Peripheral Broadcast Channel Map Change event	[1] 7.7.73	HCI 1a/1 “BR/EDR”		C.201

C.201: (Reverse ILD) Mandatory IF BB 3a/1 “Connectionless Peripheral Broadcast Transmitter”, otherwise Excluded.

C.202: (Reverse ILD) Mandatory IF BB 3a/2 “Connectionless Peripheral Broadcast Receiver”, otherwise Excluded.

Table 19

Item	Capability	Reference	IUT Configuration	Core Version	Status
1	No longer used	N/A	N/A	N/A	N/A

Table 20

Item	Capability	Reference	IUT Configuration	Core Version	Status
1	LE Create BIG command [v1]	[5] 7.8.103	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.41
1a	LE Create BIG command [v2]	[14] 7.8.103	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.161
2	LE Create BIG Test command [v1]	[5] 7.8.104	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.41
2a	LE Create BIG Test command [v2]	[14] 7.8.104	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.161
3	LE Create BIG Complete event [v1]	[5] 7.7.65.27	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.41
3a	LE Create BIG Complete event [v2]	[14] 7.7.65.27	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.161
4	Isochronous data over HCI	[5] 5.4.5	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.904

Item	Capability	Reference	IUT Configuration	Core Version	Status
5	LE Set Host Feature command [v1]	[5] 7.8.115	HCI 1a/4 “LE”	CORE 1a/52 “Controller Core v5.2 or later”	C.49
6	No longer used	N/A	N/A	N/A	N/A
7	LE Set Host Feature command [v2]	[5] 7.8.115	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.85

C.41: (Reverse ILD) Mandatory IF LL 9/33 “Isochronous Broadcaster on the GFSK PHYs”, otherwise Excluded.

C.49: (Reverse ILD) Mandatory IF LL 9/31 “Connected Isochronous Stream - Central” OR LL 9/32 “Connected Isochronous Stream - Peripheral” OR LL 9/45 “Connection Subrating” OR LL 9/48 “Advertising Coding Selection” OR LL 9/56 “Channel Sounding”, otherwise Optional.

C.85: (Reverse ILD) Mandatory IF LL 9/69 “Shorter Connection Intervals”, otherwise Excluded.

C.161: (Reverse ILD) Mandatory IF LL 9/76 “High Data Throughput”, otherwise Excluded.

C.904: (Reverse ILD) Optional IF LL 9/31 “Connected Isochronous Stream - Central” OR LL 9/32 “Connected Isochronous Stream - Peripheral” OR LL 9/33 “Isochronous Broadcaster on the GFSK PHYs” OR LL 9/34 “Synchronized Receiver on the GFSK PHYs”, otherwise Excluded.

Table 21

Item	Capability	Reference	IUT Configuration	Core Version	Status
1	LE CS Read Local Supported Capabilities command [v1]	[8] 7.8.130	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75
1a	LE CS Read Local Supported Capabilities [v2] command	[13] 7.8.130	HCI 1a/4 “LE”	CORE 1a/63 “Controller Core v6.3 or later”	C.48
2	LE CS Read Remote Supported Capabilities command	[8] 7.8.131	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75
3	LE CS Write Cached Remote Supported Capabilities command [v1]	[8] 7.8.132	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75
3a	LE CS Write Cached Remote Supported Capabilities command [v2]	[13] 7.8.132	HCI 1a/4 “LE”	CORE 1a/63 “Controller Core v6.3 or later”	C.48
4	LE CS Security Enable command	[8] 7.8.133	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75
5	LE CS Set Default Settings command	[8] 7.8.134	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75
6	LE CS Read Remote FAE Table command	[8] 7.8.135	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75

Item	Capability	Reference	IUT Configuration	Core Version	Status
7	LE CS Write Cached Remote FAE Table command	[8] 7.8.136	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.76
8	LE CS Create Config command	[8] 7.8.137	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75
9	LE CS Remove Config command	[8] 7.8.138	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75
10	LE CS Set Channel Classification command	[8] 7.8.139	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75
11	LE CS Set Procedure Parameters command	[8] 7.8.140	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75
12	LE CS Set Procedure Enable command	[8] 7.8.141	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75
13	LE CS Test command	[8] 7.8.142	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75
14	LE CS Test End	[8] 7.8.143	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75
15	LE CS Read Remote Supported Capabilities Complete event [v1]	[8] 7.7.65.39	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75
15a	LE CS Read Remote Supported Capabilities Complete event [v2]	[13] 7.7.65.39	HCI 1a/4 “LE”	CORE 1a/63 “Controller Core v6.3 or later”	C.48
16	LE CS Read Remote FAE Table Complete event	[8] 7.7.65.40	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75
17	LE CS Security Enable Complete event	[8] 7.7.65.41	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75
18	LE CS Config Complete event	[8] 7.7.65.42	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75
19	LE CS Procedure Enable Complete event	[8] 7.7.65.43	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75
20	LE CS Subevent Result event	[8] 7.7.65.44	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75
21	LE CS Subevent Result Continue event	[8] 7.7.65.45	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75

Item	Capability	Reference	IUT Configuration	Core Version	Status
22	LE CS Test End Complete event	[8] 7.7.65.46	HCI 1a/4 “LE”	CORE 1a/60 “Controller Core v6.0 or later”	C.75
23	LE CS Set Security Requirements	[13] 7.8.157	HCI 1a/4 “LE”	CORE 1a/63 “Controller Core v6.3 or later”	C.92
24	LE CS Set Default Security Requirements	[13] 7.8.158	HCI 1a/4 “LE”	CORE 1a/63 “Controller Core v6.3 or later”	C.91

C.48: (Reverse ILD) Mandatory IF LL 9/71 “Channel Sounding Enhancement #1”, otherwise Excluded.

C.75: (Reverse ILD) Mandatory IF LL 9/56 “Channel Sounding”, otherwise Excluded

C.76: (Reverse ILD) Mandatory IF LL 9/56 “Channel Sounding” AND LL 1/7 “CS Initiator”, otherwise Excluded.

C.91: (Reverse ILD) Optional IF LL 9/56 “Channel Sounding”, otherwise Excluded.

C.92: Mandatory IF HCI 21/24 “LE CS Set Default Security Requirements”, otherwise Excluded.

Tables 22–23: No longer used

Table 24

Item	Capability	Reference	IUT Configuration	Core Version	Status
1	LE Set HDT Default Parameters	[14] 7.8.159	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.161
2	LE Set HDT Parameters Test	[14] 7.8.160	HCI 1a/4 “LE”	CORE 1a/70 “Controller Core v7.0 or later”	C.161

C.161: (Reverse ILD) Mandatory IF LL 9/76 “High Data Throughput”, otherwise Excluded.

3 LL feature mapping to HCI commands/events and LL PDUs

Feature Bit	Feature	HCI Command	HCI Event	LL PDU
0	LE Encryption	LE Encrypt LE Rand Encryption Key Refresh Complete	Encryption Change [v1]	
0	LE Encryption – Central	LE Enable Encryption		LL_ENC_REQ/RSP
0	LE Encryption – Peripheral	LE Long Term Key Request Reply LE Long Term Key Request Negative Reply	LE Long Term Key Request	
1	Connection Parameters Request	LE Remote Connection Parameter Request Reply LE Remote Connection Parameter Request Negative Reply	LE Remove Connection Parameter Request	
5	LE Data Packet Length Extension	LE Set Data Length LE Read Suggested Default Data Length LE Write Suggested Default Data Length LE Read Maximum Data Length	LE Data Length Change	
6	LL Privacy	LE Set Privacy Mode		
12	Extended Advertising	LE Set Advertising Set Random Address LE Set Extended Advertising Data LE Set Extended Scan Response Data LE Set Extended Advertising Enable LE Read Maximum Advertising Data Length LE Read Number of Supported Advertising Sets LE Remove Advertising Set LE Clear Advertising Sets	LE Scan Request Received LE Advertising Set Terminated	
13	Periodic Advertising	LE Set Periodic Advertising Data LE Set Periodic Advertising Enable		
17	Connection CTE Request	LE Set Connection CTE Receive Parameters LE Connection CTE Request Enable	LE Connection IQ Report LE CTE Request Failed	
18	Connection CTE Response	LE Set Connection CTE Transmit Parameters LE Connection CTE Response Enable		

Feature Bit	Feature	HCI Command	HCI Event	LL PDU
19	Connectionless CTE Tx	LE Set Connectionless CTE Transmit Parameters LE Set Connectionless CTE Transmit Enable		
20	Connectionless CTE Rx	LE Set Connectionless IQ Sampling Enable	LE Connectionless IQ Report	
25	PAST Recipient	LE Set Periodic Advertising Sync Transfer Parameters LE Set Default Periodic Advertising Sync Transfer Parameters	LE Periodic Advertising Sync Transfer Received [v1]	
26	SCA	LE Request Peer SCA	LE Request Peer SCA Complete	LL_CLOCK_ACCURACY_REQ/RSP
26	SCA Update	LE Modify Sleep Clock Accuracy		
28	CIS Central	LE Set CIG Parameters LE Remove CIG LE Set CIG Parameters Test		
28	CIS Central	LE Create CIS		
29	CIS Peripheral	LE Accept CIS Request LE Reject CIS Request	LE CIS Request	
30	ISO Broadcaster	LE Terminate BIG LE Create BIG LE Create BIG Test	LE Terminate BIG Complete LE Create BIG Complete	
31	Synchronized Receiver	LE BIG Create Sync LE BIG Terminate Sync	LE BIG Sync Established LE BIG Sync Lost LE BIGInfo Advertising Report	
33	LE Power Control Req	LE Enhanced Read Transmit Power Level LE Set Transmit Power Reporting Enable LE Read Remote Transmit Power Level	LE Transmit Power Reporting	
35	LE Path Loss Monitoring	LE Set Path Loss Reporting Parameters LE Set Path Loss Reporting Enable	LE Path Loss Threshold	
37	Connection Subrating	LE Set Default Subrate LE Subrate Request	LE Subrate Change	LE_SUBRATE_REQ/RSP
39	Channel Classification	Read AFH Channel Assessment Mode Write AFH Channel Assessment Mode		

Feature Bit	Feature	HCI Command	HCI Event	LL PDU
43	PAwR Advertising	LE Set Periodic Advertising Parameters [v2] LE Set Periodic Advertising Subevent Data	LE Periodic Advertising Response Report LE Periodic Advertising Subevent Data Request	
44	Scanning for PAwR		LE Periodic Advertising Sync Transfer Received [v2]	
46	CS	LE CS Read Local Supported Capabilities LE CS Read Remote Supported Capabilities LE CS Write Cached Remote Supported Capabilities LE CS Security Enable LE CS Set Default Settings LE CS Read Remote FAE Table LE CS Create Config LE CS Remove Config LE CS Set Channel Classification LE CS Set Procedure Parameters LE CS Set Procedure Enable LE CS Test LE CS Test End	LE CS Read Remote Supported Capabilities Complete LE CS Read Remote FAE Table Complete LE CS Security Enable Complete LE CS Config Complete LE CS Procedure Enable Complete LE CS Subevent Result LE CS Subevent Result Continue LE CS Test End Complete	LL_CS_REQ/RSP/IND LL_CS_CONFIG_ REQ/RSP
63	LL EFS	LE Read All Local Supported Features		
64	Monitoring Adv	LE Add Device To Monitored Advertisers List LE Remove Device from Monitored Advertisers List LE Clear Monitored Advertisers List LE Enable Monitoring Advertisers LE Read Monitored Advertisers List Size	LE Monitored Advertisers Report	
65	Frame Space Update	LE Frame Space Update	LE Frame Space Update Complete	LL_FRAME_SPACE_ REQ/RSP
72	SCI	LE Connection Rate Request LE Set Default Rate Parameters	LE Connection Rate Change	LL_CONNECTION_RATE _REQ/IND
74	LE Flushable ACL Data	Read Automatic Flush Timeout Write Automatic Flush Timeout		

Table 3.1: LL feature mapping to HCI commands/events and LL PDUs

4 References

[1] Bluetooth Core Specification, Version 4.2 or later, Volume 4[1], Part E, Host Controller Interface (HCI)

[2] Bluetooth Core Specification, Version 5.0 or later, Volume 4[1], Part E, Host Controller Interface (HCI)

[3] Bluetooth Core Specification, Version 5.1 or later, Volume 4[1], Part E, Host Controller Interface (HCI)

[4] Erratum 10734: Pairing Updates

[5] Bluetooth Core Specification, Version 5.2 or later, Volume 4, Part E, Host Controller Interface (HCI)

[6] Bluetooth Core Specification, Version 5.3 or later, Volume 4, Part E, Host Controller Interface (HCI)

[7] Bluetooth Core Specification, Version 6.0 or later, Volume 6, Part B, Link Layer (LL)

[8] Bluetooth Core Specification, Version 6.0 or later, Volume 4, Part E, Host Controller Interface (HCI)

[9] Bluetooth Core Specification, Version 6.1 or later, Volume 4, Part E, Host Controller Interface (HCI)

[10] Bluetooth Core Specification, Version 6.2 or later, Volume 4, Part E, Host Controller Interface (HCI)

[11] ICS Proforma for Baseband (BB)

[12] ICS Proforma for Link Manager Protocol (LMP)

[13] Bluetooth Core Specification, Version 6.3 or later, Volume 4, Part E, Host Controller Interface (HCI)

[14] Bluetooth Core Specification, Version 7.0 or later, Volume 4, Part E, Host Controller Interface (HCI)

[1] In versions 1.2 to 5.1, *Volume 4, Part E* was *Volume 2, Part E*.

5 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	2.0.E.1	2005-11-22	Reformatted and renamed document TSE 864: Changed title page; TSE 859 for Table 5 row 1 and Table 13 row 1 and footnote C.2. TSE 871 for Table 10 Connection State
1	2.0.E.2	2006-06-20	TSE 895 for Table 7: remove read/write Page Scan period mode
	2.1.E.0r0 to 2.1.E.0r3	2006-10-01 2006-12-27	TSE 1885: Table 16: HCI write, read, store link keys optional Table 13: Added line 7 for LSTO event Table 9: Erroneous Data Reporting Table Add lines 6-9 Table12: Add rows 10 through 16 for SSR and Persistent Sniff; TSE 1922 editorial correction made for PDF; reposted Changed Vol 2, Part E, Section 7.x.x. to HCI:7.x.x Renamed document from 2.0.E.3 to 2.1.E.1 Revised previous column entry for clarity (added TSE 1922) Table 6: Add rows 11 and 12 for Simple Pairing Table 16: Add rows 19 – 27 for Simple Pairing Table 17 Add row 4 for Simple Pairing Aligned specification references for new commands with the 2.1 HCI spec Added EIR commands; Items 13 and 14 in Table 6 Added SP command; Item 25 in Table 16 Added EPR command; Item 29 in Table 16 Table 12: Removed Persistent Sniff related ICS line items Table 12, Item 19 pertaining to PBF added
2	2.1.E.0	2006-12-28	Add status to Table 6, lines 13 and 14; Prepare for publication.
3	2.1.E.1	2007-09-05	TSE 2157: Add “Roles” table TSE 2116: Make C.1 M.1 in Table 8. TSE 2108: Add row to Table 1. TSE 2134: Table 16, items 15, 16, 17 M->O Remove extra p in Table 1 and circular reference in Table 3. Removed all “M1 footnotes.” Prerequisites used instead
4	2.1.E.2	2008-04-01	TSE 2333: Table 9, C5 footnote
5	2.1.E.3	2008-12-11	TSE 2642: Table 12, Footnote update to refer to correct table TSE 2653: Table 12/8, 12/9 Prepare for publication
	2.1.E.4r0-1	2009-02-17	AMP updates Removed SUMMARY 21/9 as it is removed from SUM ICS. Replaced SUM 2-1 with SUM 21.

Publication Number	Revision Number	Date	Comments
6	3.0.H.0	2009-04-07	Prepare for publication.
	3.0.H.0	2009-04-21	Correction to Table 5 rows 10-12, and additional rows to Table 14.
	3.0.H.1	2009-08-11	TSE 2717; Change footnotes for Tables 6, 9, 12, 13, 16, 17 TSE 2940: Change footnotes for Tables 6, 9, 12, 13, 16, 17 TSE 2680: Remove pre-requisites for Controller role from HCI features TSE 2794: Table 12, Footnote C.2.
	3.0.H.2r0	2009-10-06	New PICS due to LE LMP Enhancements
	3.0.H.2+LEr3	2009-11-12	Document merged with LE_HCI ICS_0.9d5 (dated Nov 6) LE references checked/updated to Tokyo Draft v03
	3.0.H.2+LEr4 -4.0.0r5	2009-11-19 - 2009-12-15	Removal of Flush for LE, consistent with errata 3316 Review and corrections of conditionals by Steven Wenham Removal of 4/9 LE Set Local Used Features Command due to E3127 Editorial review' Review input from Steven Wenham Corrected conditions for 16/37 and 16/38 applicable to 1a/1. Editorial review' Document reference change from Tokyo to 4.0
7	4.0.0	2009-12-15	Prepare for publication
8	4.0.1	2010-06-24	TSE 3188: Tables 6, 8, 9,10, 11, 13, 16: Added column for prerequisite TSE 3386: Table 14: Change C.1 to 0 for buffer overflow event
	4.0.2r0	2010-11-22	TSE 3526: Add 1b-d for controller-type support
9	4.0.2	2011-07-15	Prepare for publication.
	4.0.3r0	2011-10-28	TSE 4482: Table 6, Table 9, Table 12, Table 13, Table 16, Table 17: update Conditionals make BR/EDR HCI features mandatory for 4.0
10	4.0.3	2012-03-30	Prepare for publication.
	4.0.4r0	2012-05-01	TSE 4482 Table 6: C.2 and C.3, Table 9: C.5, Table 12: C.3, Table 13: C.4, Table 16: C.6, C.7, C.8 and C.9, Table 17: C.1
11	4.0.4	2012-07-24	Adopted by the Bluetooth SIG Board of Directors
	4.0.5r1	2012-12-20	Connectionless Broadcast Change Request

Publication Number	Revision Number	Date	Comments
	4.0.5r2	2013-01-02	Connectionless Broadcast Review: Table 5, added item 25 and 26 and added C.2 Table 7. Moved items 1, 2, and 16 from table 18 to table 7 and become the new 29, 30, and 31. (Table 18 renumbered). Table 7, added item 32. Table7, added conditionals C.3 and C.4 Table 18, changed item 10 from C.2 to C.1 (was previously item 12 before the renumbering)
	4.0.5r3	2013-01-03	Connectionless Broadcast Review: Table 18 item 1 changed to C.1 Updated References in Table 7 and Table 18.
	4.0.5r4	2013-01-22	Connectionless Broadcast Review (Jason & Xuguang) Added conditionals to 5/25 and 6/23 to require support of CSA4 or later. Added references section and normative cross-references in the reference cells.
	4.0.5r5	2013-01-24	Connectionless Broadcast Review (Jason, Alicia and Meagan) Fixed type-o in Table 6, C.8. Edited for consistent language and syntax for conditionals.
	4.0.5r6	2013-01-25	Connectionless Broadcast Review (Xuguang) Added “Part B Volume 2 Part E” to the CSA4 reference
	4.0.5r7	2013-01-28	Approved by BTI
	4.0.5r7	2013-02-13	Approved by BQRB
12	4.0.5	2013-02-19	Prepare for Publication
	4.0.6r1	2013-05-31	TSE 5072: Updated Table 7, C.1 to “Mandatory if LL 1/5 and LL 3/3 are supported, otherwise Excluded”
	4.0.6	2013-07-02	Prepare for Publication
	4.0.5	2013-02-12	Approved by BQRB
	4.0.6r1	2013-02-13	Editorial error in Table 17. C.1 Conditional corrected to read 17/1 (Privacy Feature). C.1 and C.3 edited for clarity. Approved by BTI & BQRB
13	4.0.6	2013-02-19	Prepare for Publication

Publication Number	Revision Number	Date	Comments
	4.0.7r1	2013-05-30	TSE 5063: • Updated title of section 1.4 to “LE Only Capability Statement” • Removed conditionals from Table 19, already covered in the prerequisite. All items changed to Mandatory. • Removed conditionals from Table 20, already covered in the prerequisite. Item 1 and 4 changed to Mandatory, Item 2 and 3 as optional. • Updated conditionals for Table 22, removed “AND (20/1 OR 20/3 OR 20/4) from C.1, and updated parenthesis and language in C.2 and C.3. • Removed C.1 and C.2 from Table 23, updated C.3 to be C.1. Item 1 status changed to C.1, items 2 and 4 changed to optional, and items 3 and 5 updated to Mandatory. TSE 5091: Updated Table 20A item 6 status to C.3, added “C.2: Mandatory if 22/2 or 22/3 is supported, otherwise Optional” C.2 had been included in an earlier version and was still needed, former C.2 became C.3. TSE 5100: Updated C.4 in Table 2 to remove “SUM ICS 31/5” because the item no longer exists.
	4.0.7r2	2013-06-04	BTI Review, Alicia’s Comments: Fixed the TSE reference number in the Change History. Table 0a – changed Device to Version Configuration to match the Table title. Added the ICS item description in parenthesis to conditionals where it wasn’t yet indicated for consistency and clarity: Tables 1-3, 20A, 22-25, 30, 32-36. Table 2: Further review of TSE 5100 showed there was a missing ICS item that needed adding due to the Sum ICS re-shuffle: SUM ICS 31/11 (Core Specification 4.0 + HS). Updated C.4 with this item. Table 3 conditional C.1 had 2 references to GAP 3/1 it is an obvious mistake that one should say 3/2. In Tables that had been updated for the pre-requisites affected by previous TSE’s 4330 and 4305 consistent with changes in TSE 5063 changed the pre-requisites that stated either Optional or Mandatory to Support based on the support of the Table’s pre-requisites to simply “M” or “O”: Tables 18, 28, 29, 30, 31, 34, 36, and 37. Simplified conditionals by removing the pre-requisite items from the conditionals leaving only the dependencies in Table 30 item C.1 and Table 36 items C.1 and C.2. Misc. editorial changes.
14	4.0.7	2013-07-02	Prepare for Publication
	4.0.7rT	2013-08-01	Template Conversion

Publication Number	Revision Number	Date	Comments
	4.0.7rTr3	2013-09-09	Resolution of Template Conversion Comments
	4.1.0r01	2013-09-24	BR/EDR Secure Connections CR
	4.1.0r02	2013-09-25	Train Nudging and Generalized Interlaced Scan CR
	4.1.0r03	2013-09-27	TSE 5325: Removed C.3, updated 18/13 to C.2 for 1a/1. TSE 5322: Updated references throughout TSE 5318: Updated item 5/25 and 5/26 to be "Excluded" for 1a/3 and 1a/4. TSE 5317: Updated C.1 for Table 5. TSE 5193: Updated C.1 and C.2 conditionals for Table 7. TSE 5137: Addition of item 9 in Table 4, and conditional C.2. TSE 5348: Updated item 1/1a to be no longer used, and removed the C.1 conditional in Table 1.
	4.1.0r04	2013-10-09	Piconet Clock Adjust CR
	4.1.0r05	2013-10-09	LE Ping CR
	4.1.0r06	2013-10-14	LE Link Layer Topology CR
	4.1.0r09	2013-10-31	Table 14 Changes by Mayank
	4.1.0r10	2013-11-06	Comment resolution
	4.1.0r12	2013-11-07	Review by Chris Church Updates to conditionals to represent all specification versions.
15	4.1.0	2013-12-03	Prepare for Publication
	4.2.0r00	2014-11-07	Integrated Section 3.1 of Core_LE_Data_Length_Extensions_TEST.CRr01
	4.2.0r01	2014-11-20	Review by Mayank, Jason, Rasmus. Changes integrated
	4.2.0r02	2014-11-23	Incorporated additions from Rasmus and Alicia. Table 4, C.2 updated to remove CSA2 Table 6, C.2 updated to be 2.1 or later Table 6, C.3 updated to be GAP 1/3 AND 2.1 or later Standardization of Core version parenthetical references in conditionals. Additional Items for Privacy 1.2 Table 5, new items 27, 28, 29, 30, 31, 32 and C.4 and C.5 Table 6, new item 26 and C.11 Table 7, new items 38. 39, 40 and C.9
	4.2.0r03	2014-11-24	Further review by Rasmus – updates to Table 7 / 39 & 40; C.10 added.
	4.2.0r04	2014-11-25	Review by Mayank, editorial correction to Table 4, C.2 and added the missing LE Read Maximum Data Length command that was recently added as part of the LE Data Packet Length Extension Core feature, as item 10/16.

Publication Number	Revision Number	Date	Comments
	4.2.0r05	2014-11-25	Additional editorial review by Alicia integrated
	4.2.0r06	2014-11-25	Review by Dave. Minor editorial changes.
16	4.2.0	2014-12-04	Prepare for TCRL 2014-2 publication
	4.2.1r00	2016-03-03	TSE 6949: HCI 14/3, Core Version updated.
	4.2.1r01	2016-04-06	TSE 6370: Corrected Capability name for HCI 1/1, 1/1b, 1/1c, and 1/1d. Prerequisite Status updated for HCI 1/2, 1/3, 3/1, and 8/8.
17	4.2.1	2016-07-07	Prepared for TCRL 2016-1 publication
	5.0.0r00	2016-07-07	Integrated changes for Core Specification 5.0 release
	5.0.0r01	2016-08-30	Issue 7534: Updated “TBD” references in Table 5, 6, 7, 13, and 14. Changed “LE Used Channel Selection Algorithm Event” to “LE Channel Selection Algorithm Event” in Table 7.
	5.0.0r02	2016-09-13	Issue 7633: Updated Conditional C.7 for Table 13: Deleted references to item LL 9/11. Added references to items LL 6/23 and LL 7/23.
	5.0.0r03	2016-09-20	Issue 7682: Updated Conditional C.7 for Table 13: Deleted references to items LL 6/23 and LL 7/23. Added reference to SUM ICS 21/16.
	5.0.0r04	2016-09-30	Issue 7728: Deleted item HCI 13/13 and conditional C.7.
	5.0.0r05	2016-10-07	TSE 7537 (erratum 6356): Added item 7/43 for LE Set Privacy Mode. TSE 7581 (erratum 7021): Changed LE Set Advertise Enable to LE Set Advertising Enable. TSE 6971: Added row 17 to Table 10, row 2a and conditional C.5 to Table 15, row 23a to Table 16, and row 5a to Table 17. Deleted redundant entries from Table 14 (rows 9, 10, and 11) and Table 19 (row 1).
	5.0.0r06	2016-11-11	Issue 7884: Global edit. Added support in conditionals for Core Spec version 5.0.
	5.0.0r07	2016-11-16	Updated to current template. Removed unnecessary parentheses and replaced with quotation marks. Editorial re-writes to Conditional logic to future proof Core versioning increments. Conditionals affected: Table 4: C.2; Table 6: C.2, C.3; Table 7: C.5; Table 9: C.5; Table 12: C.3; Table 13: C.4, C.6; Table 16: C.6, C.7, C.8, C.9, C.13; Table 17: C.1, C.4.
	5.0.0r08	2016-11-18	Corrected “CSA4 or later” to correct references in Table 5:C.2 and Table 6: C.8, C.9
18	5.0.0	2016-12-13	Approved by BTI. Prepared for TCRL 2016-2 publication
	5.0.1r00	2017-03-28	TSE 8535: Updated item 16/46 capability from “Authentication” to “Authenticated” and Status from “Excluded” to “C.12”. Removed 16/49 as a duplicate.
	5.0.1r01	2017-04-28	TSE 8916: Updated Status from "C.10" to "C.13" for item 43 in Table7: Connection Setup and added Conditional C.13.

Publication Number	Revision Number	Date	Comments
19	5.0.1	2017-07-05	Approved by BTI. Prepared for TCRL 2017-1 publication.
	5.0.2r00	2017-09-14	TSE 9218: Modified Table 9, C.13 note.
	5.0.2r01	2017-09-19	AoA/AoD: Integrated the AoA/AoD CR into Tables 4, 5, 8, 10, and 17.
	5.0.2r02	2017-09-29	TSE 9829: Changed “LE Read Remote Used Features Command” to “LE Read Remote Features command” and “LE Read Remote Used Features Complete Event” to “LE Read Remote Features Complete Event” in Table 8.
20	5.0.2	2017-12-07	Approved by BTI. Prepared for TCRL 2017-2 publication.
	5.0.3r00-02	2018-01-24 – 2018-06-14	Issue 10276: Added new reference in Section 2 References. Updated Capability for 17/7, 17/8, 17/10, and 17/11. Updated Capability and Reference for 17/12 and 17/13. Revised Table 17 C.5 and C.6. TSE 9903 (rating 2): Added 5/53 and C.11 to Table 5. Editorial fix to C.6 in Table 13. Added HCI prefix to C.2 in Table 14. Changed C.4 to make the command mandatory if any of the above features are supported. Incorporated Core E10734 Pairing Updates TS CR: Added item 4/12 and C.4.
21	5.0.3	2018-07-02	Approved by BTI. Prepared for TCRL 2018-1 publication.
	5.0.4r00-r06	2018-07-16 – 2018-11-13	Incorporated Core_PAST_CLE_TEST_CR_r05: Table 6: Added row 37 and conditional note C.14; modified conditional note C.13. Table 10: Added rows 24–28 and conditional notes C.8–C.10. Table 14: Modified conditional note C.5. Incorporated Core Minor Enhancements Batch 1 Test CRr10-clean: For Table 16: Modified item 51; added item 51a and conditional note C.16. Issue 10707: Updated conditional note ref. for items 51 and 51a. Modified conditional note C.16; added C.17 for Table 16. TSE 10959 (rating 2): Revised conditionals C.3 and C.4 in Table 14 so they point to Controller SUM ICS Table 21 rather than Host Table 31. TSE 10731 (rating 2): Added conditional C.18 and updated items 16/34, 16/35, 16/36, and 16/39 with C.18. TSE 10943 (rating 3): Deprecated items 16/3 and 16/4. TSE 11155 (rating 2): Updated conditional C.11 for Table 7. TSE 11156 (rating 2): Updated conditional C.9 for Table 7.

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			Replaced [X] values with actual values. Updated Madrid styles - changed light grey text to black text.
	5.1.0r00-r01	2018-11-13 – 2018-11-19	Updated revision number from 5.0.4 to 5.1.0 to align with the adoption of Core Specification version 5.1. Corrected implementation of conditionals referencing 5.1.
22	5.1.0	2018-12-07	Approved by BTI. Prepared for TCRL 2018-2 publication.
	5.1.1r00–r06	2019-04-01 – 2019-06-13	TSE 11468 (rating 1): Updated Table 7 to C.2 for LE transport in Item 27 and changed C.8 to “No Longer Used.” TSE 11530 (rating 2): Added entry for HCI LE Modify Sleep Clock Accuracy command to Table 10; added conditional C.11 under table. TSE 11453 (rating 2): Updated item 26 of Table 7 and conditional C.2 under table. TSE 11924 (rating 2): Modified Table 4 and Table 14 to address support of certain features under AMP. TSE 11843 (rating 2): Updated Table 8, item 8 as Excluded for AMP Transport and added a new conditional for BR and LE transport support. TSE 11845 (rating 2): Updated item 12 of Table 4: Controller Information to reflect “Excluded” for Core Version. TSE 11178 (rating 2): Updated conditional statement C.5 under Table 13, “Physical Links” to include Extended Advertising. Incorporated changes associated with Key Negotiation Changes specification erratum 11838: Changed status for item 16/30 (Read Encryption Key Size command) from Optional to Mandatory for devices operating over BR/EDR transport.
23	5.1.1	2019-08-01	Approved by BTI. Prepared for TCRL 2019-1 publication.
	p24r00–r07	2019-08-06 – 2019-12-03	Added test groups to accommodate adoption of Core Specification v5.2 with regard to Isochronous Channels CR r20 (includes Issues 11742, 11762, 11777, 11778, 11779, 11783,11786, 11804, 11817, 11819, 11820, 11852, 11917, 11919, 11928, 11929, 11930, 11983, 11740, 11801, 11941, 12029, 12030, 12043, 12052, 12053, 12054, 12055, 12059, 12061, 12071, 12072, 12073, 12077, 12084, 12031, 12078, 12094, 12095, 12106, 12107, 12130, 12132, 12133, 12251, 12280, and 12321). Added items 6–9 and notes C.1 and C.2 to Table 3; added items 54–58 and notes C.12 and C.13 to Table 5; added items 38–43 and notes C.15 and C.16 to Table 6; added items 30–34 and notes C.12–C.14 to Table 10; updated text in note C.5 for Table 13; added item 9 and note C.6 to Table 15; added items 14–17 and notes C.7–C.9 to

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			Table 17; added new Table 20; updated references section with new Core Specification. Added test groups to accommodate adoption of Core Specification v5.2 with regard to LE Power Control CR r07 (includes Issues 12116, 12112, 12115, 12117, 12118, 12255). Added items 59–64 and notes C.14–C.16 to Table 5; added item 10 and note C.7 to Table 8; added item 18 and note 3.10 to Table 17. TSE 11963 (rating 3): Updated ICS to match the Core specification and to ensure that every command and event is included. Added Table 0 Core Version table. Removed table names. Aligned all conditional numbering with Table 3.1: Alphabetical list of commands and events found in the HCI Volume in the Core specification. Added IUT Configuration column to replace the column prerequisite structure and a Core Version column to simplify conditionals. Simplified the status into a single column. Added [v1] to items 3/5 and 4/10. Added items 3/6–9, 4/13–17, 6/45–49, 7/44–49, 8/5a, 8/5b, 8/8a, 8/8b, 8/11–14, 9/12–13, 10/35–39, 12/22–27, 13/1a, 13/1b, 13/2a, 13/2b, 13/13–14, 14/21–22, 15/2b, 15/2c, 15/3a, 15/3b, 15/4a, 15/4b, 15/4c, 15/10, 16/37a, 16/37b, 16/38a, 16/38b, 16/46a, 16/46b, 16/47a, 16/47b, 16/48a, 16/48b, 16/54–67, 17/3a, 17/3b, and 17/19–22. Removed items 8/8, 15/2–4, 16/24, 16/37–38, 16/46–48, and 17/3. Marked 12/11–16 as no longer used. TSE 12048 (rating 1): Added row to Table 12 to account for items deleted for persistent sniff feature. Fixed a numbering error in Table 17. TSE 12110 (rating 1): Fixed references to align with changes made in erratum 11876. TSE 12779 (rating 2): Updated Table 4 status of item 12 and deleted conditional C.4 to remove requirement to support SUM ICS 21/17 (Erratum 10734); updated Table 16 conditional C.15. Issue 12714 (CR in comment 51978): Added a row to Table 5. Issue 12706 (CR in comment 52042): Updated Table 5 item 10 Capability and Status and added three new items (13–15) and two new conditionals (C.5 and C.6); updated Table 5 with one new item (66) and one new conditional (C.17). Integration reviews in multiple rounds. Editorial refinement in multiple steps, including corrected references and smaller updates to changes that came with TSE 11963. Items 10/4 and 10/5 set to no longer used. Revised document numbering convention, setting last release publication of 5.1.1 as p23; added publication number column to Revision History. Minor editorial fixes. Updated Contributors list.

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24	p24	2020-01-07	Approved by BTI on 2019-12-22. Prepared for TCRL 2019-2 publication.
	p25r00–r22	2020-02-25 – 2021-06-09	TSE 13121 (rating 4): Added item 23 to Table 14 to address issue with test written only for BR/EDR but mapped to all transports. TSE 13583 (rating 2): Updated “Read Buffer Size command” item in Table 3 to accommodate spec changes. TSE 13587 (rating 2): Updated conditionals for Table 3 to align with Erratum 13143 changes to the LE Read Buffer Size conditional. TSE 14635 (rating 2): Corrected errors in conditionals in Tables 3, 5, 6, 7, 10, and 16. TSE 14695 (rating 4): Added item 40 and note C.10 to Table 10 to address Erratum 12379, adding an HCI_LE_Set_Data_Related_Address_Changes command. TSE 14954 (rating 2): Updated the status for item 7 of Table 3, updated C.44, and added new C.95 (number assigned using final editor’s proof in spec Erratum 14980). TSE 14963 (rating 2): Updated the status for items 6 and 7 of Table 9 and added new conditionals C.135a and C.135b. TSE 15025 (rating 2): Changed C.36 to delete “LL 1/4 “Slave Role” OR case to address Erratum 14998. TSE 15045 (rating 2): Updated note C.22 of Table 5 per Erratum 15010, which updates the LE Path Compensation conditionals. TSE 15239 (rating 4): To address an issue with adding Time_Stamp as an optional feature to “Isochronous data over HCI”, added new Item 6 and conditional C.900 to Table 20. TSE 15270 (rating 4): To address Erratum 14893, which addresses changes to the Read/Write Connection Accept Timeout command for LE and changes to the CIS request command, updated items 12 and 13 of Table 7 and added C.40a conditional. TSE 15290 (rating 2): To address Erratum 15233, which updates conditionals for two HCI commands, updated C.108 and items 18 and 19 of Table 5. TSE 15433 (rating 1): Editorials to address Erratum 15348, globally change “White List” to “Filter Accept List”. TSE 15448 (rating 1): Editorials to address Erratum 15334, globally change “Master” to “Central” and “Slave” to “Peripheral”. TSE 15491 (rating 1): Editorials to address Erratum 15328, in Table 16, change the command name from “Master Link Key” to “Link Key Selection” and the event name from “Master Link Key Complete” to “Link Key Type Changed”.

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			TSE 15610 (rating 3): To address E15570 regarding changes to conditionals in the ICS for some HCI commands and events: updated status of Item 26 in Table 6 and added C.63; updated status of Items 23, 24, and 27 in Table 7 and added conditionals C.59, C.62, and C.94; and updated status of Items 34–36 and 39 in Table 16 and added conditionals C.60 and C.61. TSE 15914 (rating 1): To address E15233, updated conditional C.108 and status for item 18 in Table 5. TSE 16137 (rating 2): To address an issue raised in E16142, changed item 44 in Table 5 from C.1 to C.64 and added C.64 to the notes for that table. TSE 16175 (rating 2): Changes made to conditionals C.12, C.13, and C.29 as part of TSE 16235, above (keeping TSE active to accommodate associated TCW). TSE 16235 (rating 2): Updated C.12, C.13, and C.29 for Table 17 to address E16167. Incorporated Enhanced_Connection_Update_TEST_CR_r17: Added three new items and a new conditional to Table 7, updated C.49 of Table 20; the reference to the Core v5.3 release was already added under Host_To_Controller_Encryption_Key_Control_ Enhancements_TEST_CR_r06. Incorporated Host_To_Controller_Encryption_Key_Control_ Enhancements_TEST_CR_r06: Added to the References list a reference to v5.3 of the HCI volume/part of the Core spec; updated Table 16 by modifying items 37a and 37b, adding items 37c, 37d, and 68, and adding related conditionals to be numbered later. Incorporated LE_Channel_Classification_TEST_CR_r07: Added item to Table 0 for Core v5.3; added items 3a and 4a to Table 13, as well as associated conditional; modified conditional C.36 for Table 13. Incorporated Removing_AMP_TEST_CRr03a: Added Removing AMP section to the Conditional Text section; added C.901 and updated Status of item 3 in Table 1a. Template-related editorials.
25	p25	2021-07-13	Approved by BTI on 2021-06-27. Prepared for TCRL 2021-1 publication.
	p25ed2r00	2021-07-26	TSE 17283 (rating 1): Deleted a conditional no longer relevant to Table 6.
	p25 edition 2	2021-08-20	Approved by BTI on 2021-08-19. Prepared for edition 2 publication.

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	p26r00–r04	2021-08-31 – 2022-01-04	TSE 16890 (rating 2): Updated C.15 of Table 6. TSE 17150 (rating 2): To address E17069 “HCI Remote OOB Extended Data Request Reply command ICS conditional changed”, deleted C.143 from Table 16 and changed status of item 43 to C.142. TSE 16960 (rating 2): To accommodate E16908, Changes to HCI commands related Sync Train / Sync Scan ICS conditionals, updated Table 18 to remove C.203 and C.204 and changed Status for items 3, 4, 8, 9, 10, and 11. TSE 17515 (rating 2): To address E17510, updated Table 14: IUT Config of items 15 and 16 and text of C.153a. TSE 17654 (rating 2): Added prerequisites to all tables to address an issue with limiting IUT configurations to Control configurations. Consistency checker editorials. Updated copyright page to align with v2 of the DNMD.
26	p26	2022-01-25	Approved by BTI on 2021-12-27. Prepared for TCRL 2021-2 publication.
	p27r00–r04	2022-04-06 – 2022-05-03	TSE 18513 (rating 2): Added a Core Version to 6/29. TSE 18514 (rating 2): Updated 20/6 to “HCI 0/3 “5.2 or later””. TSE 18894 (rating 2): De-integrated TSE 16960 changes, as they were prematurely integrated with respect to the related Erratum 16908, which is not yet released. Added C.203 and C.204 back to Table 18 and updated statuses for 18/3, 18/4, and 18/8–18/11 accordingly. Editorials (template, consistency checker).
27	p27	2022-06-28	Approved by BTI on 2022-05-31. Prepared for TCRL 2022-1 publication.
	p28r00–r06	2022-09-27 – 2022-12-21	TSE 20619 (rating 2): Set 1a/2, the host configuration, to "No longer used” and updated C.1. Removed prerequisites from Tables 1–20. Core v5.4 CRs: CSSA (from CR Coding_Scheme_Selection_on_ Advertising_Test_CR_r08): Added new item 0/5. Updated item 5/34, added 5/34a, and added related conditionals C.65 ad C.66. PAwR (from CR Periodic_Advertising_with_Responses_TEST_ CR_r22): Added item 0/5; modified item 5/35 and added items 5/35a, 5/67, 5/68, and 5/69 and related C.67; modified items 6/33 and 6/35 and added items 6/33a, 6/35a, 6/50, and 6/51 and related C.68; updated 7/38 and 7/41 and added 7/38a and 7/41a and related C.67 and C.69; modified 10/26 and added 10/26a and related C.68.

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28	p28	2023-02-07	Approved by BTI on 2022-12-28. Prepared for TCRL 2022-2 publication.
	p29r00–r10	2023-08-08 – 2024-01-04	TSE 23188 (rating 2): Added conditional C.206 to Table 9 and updated the Status column for 9/8. TSE 23209 (rating 3): To accommodate changes needed to support E18552, added item 10/31a and conditional C.159. TSE 23253 (rating 2): Removed C.203 and C.204 from Table 18. Updated the conditionals for 18/3, 18/4, 18/8, 18/9, 18/10, and 18/11. TSE 23581 (rating 1): In the References section, removed the references for Core v1.2, CSA4, and CSA3 and removed the footnote from Core v5.2. Added a reference for Core v5.4. Updated cross-refs throughout the ICS accordingly. Corrected the Core Version for 16/51a and added a Core Version for 16/68. TSE 24072 (rating 2): Removed Table 0. Updated references to the previous Table 0 and to SUM.ICS to Core.ICS references in C.901, the “Capability statement” section intro, and items 3/6–3/9, 4/11, 4/13–4/15, 5/33–5/69, 6/27–6/44, 6/50, 6/51, 7/38a, 7/41–7/43, 7/50–7/52, 8/9, 8/10, 10/18–10/34, 10/40, 13/3a, 13/4a, 13/9–13/12, 14/17–4/20, 15/9, 16/18, 16/51a, 16/68, 17/10–17/18, and 20/1–20/6. TSE 24547 (rating 1): Set 20/6 to “no longer used” and deleted associated C.900 from the conditionals list. TSE 24764 (rating 1): Updated C.135a to C.902 and C.135b to C.903 per current document conventions. Updated items 9/6 and 9/7 accordingly. TSE 24767 (rating 1): Set the configuration for HCI 16/18 to “HCI 1a/1 “BR/EDR””.
29	p29	2024-07-01	Approved by BTI on 2024-05-22. Prepared for TCRL 2024-1 publication.
	p30r00–r15	2024-05-20 – 2024-08-01	Incorporated changes from Decision_Based_ Advertising_Filtering_TEST_CR_r17: Added Items 70 and 71 and notes C.73 and C.74. to Table 5. Integrated the following test issues for Core v6.0: 20399 (TI 18581, 18583, 18584, 18928, 19316, 19330, 19331), 20408, 20411 – 20415, 20418, 20462, 20468, 20517, 20523, 20555, 20563, 20565, 22454, 22455, 22472, 22497, 22907, 22915, 23436, 24156, and 24788. Incorporated changes from Monitoring Advertising_Test_CR_r02: Added Items 72–77 and note C. 78 to Table 5. Updated references from SUM ICS to CORE ICS per Jörg’s updated CR: Decision_Based_Advertising_ Filtering_TEST_CR_r17-Jorg.

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			Incorporated CR Frame Space Update_Test_CR_r08 (which includes Test Issues 25371, 25444, 25452, 25453, 25470, 25471, 25475). To account for the Frame Space Update feature in Core Specification v6.0, performed the following updates: Added Items 13/15 and 13/16 and conditional C.79 to Table 13. Updated the references list. Incorporated CR Core_LLExtendedFeatureSet_ Test_CRr11-Jorg (which includes Test issues 24450, 24696, 24807, 24896, 24905). To account for the Low Energy Extended Feature Set feature in Core Specification v6.0, updated Item 4/8, added Item 4/18 and C.70 in Table 4. Updated Items 8/6 and 8/7 and added Items 8/15 and 8/16 and conditionals C.71 and C.72 in Table 8. Updated the references list. Incorporated the changed parts of the Monitoring Advertising_Test_ CR_r03 (changes only for Test Issue 25248). Incorporated CR CS_Test_CR_r16-jorg (which includes Test issues 23205, 23293, 23331, 23332, 23361, 23362, 23363, 23364, 23365, 23378, 23379, 23381, 23382, 23384, 23404, 23419, 23422, 23424, 23425, 23500, 23501, 23502, 23503, 23504, 23506, 23594, 23693, 23694, 23696, 23701, 23706, 23711, 23732, 23736, 23737, 23738, 23776, 23842, 23923, 23993, 24023, 24033, 24043, 24049, 24133, 24135, 24137, 24138, 24139, 24141, 24142, 24143, 24146, 24147, 24149, 24150, 24151, 24153, 24177, 24181, 24231, 24232, 24330, 24331, 24332, 24410, 24411, 24418, 24419, 24478, 24483, 24515, 24531, 24599, 24601, 24602, 24614, 24618, 24619, 24621, 24623, 24624, 24625, 24627, 24630, 24639, 24645, 24646, 24655, 24656, 24657, 24659, 24660, 24669, 24681, 24717, 24769, 24776, 24789, 24808, 24809, 24838, 24844, 24850, 24867, 24868, 24893, 24894, 24895, 25028, 25029, 25040, 25042, 25053, 25055, 25111, 25112, 25120, 25139, 25140, 25141, 25142, 25143, 25148, 25149, 25150, 25157, 25166, 25209, 25240, 25278, 25282, 25299, 25428, 25443, 25479, 25498, 25511, 25512, 25525, 25585, 25617, 25632). To account for the Channel Sounding feature in Core Specification v6.0, updated C.49 for Table 20 and added Table 21. TSE 25664 (rating 2): Per E25658, updated conditional C.142 for Table 16. Incorporated integration review feedback and made template-related and consistency checker editorial updates.
30	p30	2024-09-04	Approved by BTI on 2024-08-14. Prepared for TCRL 2024-2 publication.

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	p31r00–01	2024-10-28 – 2024-11-22	TSE 25946 (rating 1): Corrected the capability name for 7/50. TSE 26132 (rating 2): Updated the capability name for 20/5 to include “[v1]” and added ICS item 20/7 with coordinating conditional C.77.
31	p31	2025-02-18	Approved by BTI on 2024-12-26. Prepared for TCRL 2025-1 publication.
	p32r00–r02	2025-01-23 – 2025-03-31	Incorporated the Randomized RPA Updates_Test_CR_r05 test CR. Modified 5/32 to include version; added 5/32a and associated conditional. Added a reference to the upcoming Core release version.
32	p32	2025-05-06	Approved by BTI on 2025-04-16. Prepared for TCRL 2025-2 publication.
	p33r00–r08	2025-07-03 – 2025-08-19	TSE 27161 (rating 1): To accommodate changes needed to support E26083, added conditional C.43 to and deleted C.1 from Table 5 and updated 5/13 accordingly. TSE 27224 (rating 1): Aligned conditional C.140 (Table 13) with wording updates in LMP. TSE 27703 (rating 1): To accommodate changes needed for E27646, added new conditionals C.80, C.81, and C.82 to Table 16 and updated the status for 16/50, 16/52, and 16/53. TSE 27850 (rating 1): To accommodate changes needed for E27824, added new conditional C.904 to Table 20 and updated the status for 20/4. TSE 27886 (rating 4): Incorporated LE_Test_Mode_Enhancements_TEST_CR_r10 to integrate the LE Test Mode Enhancements feature for Core v6.2. Added items 23–25 and accompanying conditionals C.80–C.81 to Table 17. Added a reference to Core v6.2 to the References section. TSE 27934 (rating 4): Incorporated Shorter Connection Intervals Test CR r13 to integrate the Shorter Connection Intervals feature for Core v6.2. Added a reference to Core v6.2 to the References section; added items 7/53, 7/54, and 7/55 and accompanying conditional C.85; added items 12/4a and 12/5a and accompanying conditional C.86. Updated C.140 conditional to align with LMP changes.
33	p33	2025-11-04	Approved by BTI on 2025-10-05. Prepared for TCRL pkg101 publication.
	p34r00–r20	2025-11-24 – 2026-03-16	TSE 27943 (rating 3): Per ES-27276, added new items 23 and 24 and associated conditionals C.91 and C.92 to Table 21 to address LE CS Set Security. TSE 28024 (rating 1): Per ES-27501, updated Table 13, C.140 to add an optional condition.

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			TSE 28025 (rating 1): Relates to LE Periodic Advertising [v2] events. Per ES-27248, replaced conditional C.68 for items: 6/33a (replaced with new C.87); 6/35a (replaced with new C.88), and 10/26a (replaced with new C.89). Added conditionals C.87, C.88 (to Table 6) and C.89 (to Table 10) to align with changes applied in ES-27248. Removed conditional C.68 in Table 10 (per comment 1076001). TSE 28173 (rating 2): Added Section 1.2 Enforcement of Inter-Layer Dependencies to introduce ILD columns. ILD columns added to Tables 6, 9, 12, and 13. Added BB and LMP ICS documents to the References section. Changed text and table in Section 1.2 Enforcement of Inter-Layer Dependencies (per comment 1075571). TSE 28174 (rating 1): Added (Reverse ILD) globally to conditionals that reference the Controller layer. TSE 28375 (rating 2): Added ICS item 7/56 to cover LE Read Minimum Supported Connection Interval. TSE 28542 (rating 2): Updated HCI conditionals to align with the changes made to RFPHY for TSE 28541. TSE 28551 (rating 1): Updates to the Core Version column throughout the ICS to accommodate changes needed for the deprecation of Core v4.2. TSE 28647 (rating 2): Incorporated material for the Running Out of Bits feature of Core v6.3. Added new items 4/2a and associated conditional C.223 and 4/19 with associated conditional C.905 and updated the Capability description for 4/2 to include a version; added new items 14/14a and associated conditional C.222 and 14/24 and associated conditional C.906 and updated the Capability description for 14/14 to include a version. TSE 28685 (rating 2): Incorporated material for the Channel Sounding Inline PCT Transfer feature of Core v6.3. Updated 21/1–21/3 with version numbers. Added new items 21/25 and 21/26 and associated conditional C.48. Added reference for Core v6.3 to the References section. TSE 28688 (rating 2): Incorporated material for the Channel Sounding RTT-PHY feature of Core v6.3. Added a reference to Core v6.3 to the References section. Added new items 21/1a, 21/3a, and 21/15a and added conditional C.90 to Table 21.
34	p34	2026-05-05	Approved by BTI on 2026-04-07. Prepared for TCRL pkg103 publication.
	p35r00–r17	2026-07-07 – 2026-10-02	TSE 27929 (rating 4): To support ES-27413, added an LL feature bits mapping table. TSE 29228 (rating 1): To support ES-26528, updated the conditional for 10/40 with new conditional C.910.

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			TSE 29241 (rating 4): To support ES-28915, updated the description for 14/1 and added new items 14/1a, 14/1b, and 14/1c and related conditionals C.225 and C.911. TSE 29242 (rating 1): To support the changes needed for ES-28936, updated the status/conditionals for 3/8, 4/10, 4/13 (added C.907), 5/32a (added C.908), 5/34, 6/33a, 6/35a, 10/26a, 10/31a, 16/37d, 16/51, 16/51a (added C.909), 17/18, and 20/7. Updated wording of several conditionals: C.12, C.13, C.29, C.30, C.48, C.66. TSE 29494 (rating 4): To accommodate changes needed for the LE High Data Throughput (HDT) feature of the Core v7.0 release, updated 5/56 and 5/58 with version number and added new items 5/56a and 5/58a and associated conditional C.160; updated 10/16 with version number, updated Status of 10/31a, and added new items 10/12a, 10/13a, 10/14a, 10/15a, 10/16a and 10/31b and associated conditionals C.160 and C.161; updated 16/29, 16/35, and 16/38b with version number, updated Status of 16/37d, and added new items 16/29a, 16/29b, 16/35a, 16/37e, 16/37f, 16/38c, 16/38d, 16/72, and 16/73 and associated conditionals C.160, C.162, and C.163 (also updated conditionals with new naming for LL 9/1); updated 17/9 with a version number and added new items 17/9a, 17/26, 17/27, and 17/28 and associated conditionals C.160, C.207, and C.208; updated 20/1, 20/2, and 20/3 with a version number and added new items 20/1a, 20/2a, and 20/3a and associated conditional C.160; added new Table 24 and a placeholder note for old/unused Tables 22 and 23. TSE 29495 (rating 4): To accommodate changes needed for the LE Isochronous Parameter Update (IPU) feature of the Core v7.0 release, added new items 5/54a, 5/56a, 5/58a, 33/12, 10/30a, 10/31b, and 10/41–10/50. Added related conditionals C.160, C.164, and C.165. Added a reference to Core v7.0. TSE 29569 (rating 4): To accommodate changes needed for the Encryption Production Debugging (EPD) feature of the Core v7.0 release, added new items 16/69, 16/70, and 16/71 and related conditional C.93. Added a reference to Core v7.0. Editorial updates to references to align with BTI's desired test doc conventions.
35	p35	2026-11-03	Approved by BTI on 2026-10-12. Prepared for TCRL pkg105 publication.

Acknowledgments

Name	Company
Juan Manuel Hidalgo	AT4wireless
Fransisco Narvaez	AT4wireless
Elisa Rincón	AT4wireless
Nathan Burns	Bluetooth SIG, Inc.
Gene Chang	Bluetooth SIG, Inc.
Virgil Dragomir	Bluetooth SIG, Inc.
Jeff Drake	Bluetooth SIG, Inc.
Tharon Hall	Bluetooth SIG, Inc.
Mayank Batra	Cambridge Silicon Radio
Peter Flittner	Cambridge Silicon Radio
Robin Heydon	Cambridge Silicon Radio
Steven Wenham	Cambridge Silicon Radio
Fabien Duvoux	Ellisys
Kyle Penri-Williams	Ellisys
Clement Vacheron	Ellisys
Jimmy Karlsson	Intel
Chris Church	Qualcomm
Magnus Sommansson	Qualcomm
Clive D.W. Feather	Samsung Electronics Co., Ltd.
Ben Brown	Teledyne LeCroy
Martti Söderlund	TietoEnator