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Step 3 - Project: BT + LE HSS

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Product Type Verification

Product Type Selection in PROD Table: **Host Subsystem**

Status

ValidProduct Type Selection from Dropdown: **Host Subsystem**

Host Subsystem Configuration Options

Host Subsystem (Classic): L2CAP, SDP, GAP, HCI

Host Subsystem (HS): Classic Host + L2CAP, A2MP, AMPHCI

Host Subsystem (LE): L2CAP, GAP, ATT, GATT, SM, 4.0HCI (+ Classic Host Optional)

• Product Type Conformance Check: **Host Subsystem**

-- All mandatory profiles are being claimed. --

CORE: [[SUM](#) [ICS](#) [PROD](#) [HCI](#) [L2CAP](#) [A2MP](#) [SDP](#) [GAP](#) [GATT](#) [ATT](#) [SM](#)]**Logical Link Control and Adaptation Protocol**
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1.3.1 Roles

[\[top \]](#)**Table 0: Device Configuration***Prerequisite 32/1 OR 32/5 OR 34/1**Reference [1] Core Specification v3.0+HS and [2] Core Specification v4.0.*

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	BR/EDR ?	1.1, [1] [2]	C.1	<input type="radio"/> <input checked="" type="radio"/>
2	Bluetooth low energy only ?	1.1, [2]	C.2	<input type="radio"/> <input checked="" type="radio"/>
3	BR/EDR/Bluetooth low energy ?	1.1, [2]	C.3	<input checked="" type="radio"/> <input type="radio"/>

*C.1 Mandatory if SUM_ICS 32/1 OR SUM_ICS 32/5 are supported, else Excluded**C.2 Mandatory if SUM_ICS 34/1 supported, else Excluded**C.3 Mandatory if (SUM_ICS 32/1 OR SUM_ICS 32/5) AND SUM_ICS 34/1 supported, else excluded***Table 1: Roles**

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Data Channel Initiator	L2CAP	C.1	<input checked="" type="radio"/> <input type="radio"/>
2	Data Channel Acceptor	L2CAP	C.1	<input checked="" type="radio"/> <input type="radio"/>

































































C.1: Mandatory IF (L2CAP 0/1 OR L2CAP 0/3) is claimed, ELSE Excluded

1.3.2 General Operation

[\[top \]](#)**Table 2: General Operation***Prerequisite: Core Specification Addendum 1 for items 2/12 – 2/28**"L2CAP" Reference applies to either [1] Core Specification v3.0+HS or [2] Core Specification v4.0.*

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Support of L2CAP signalling channel	L2CAP, 2.2	C.20	<input checked="" type="radio"/> <input type="radio"/>
2	Support of configuration process	L2CAP, 7.1	C.20	<input checked="" type="radio"/> <input type="radio"/>
3	Support of connection oriented data channel	L2CAP, 2.2	C.20	<input checked="" type="radio"/> <input type="radio"/>
4	Support of command echo request	L2CAP, 4.8	C.20	<input checked="" type="radio"/> <input type="radio"/>
5	Support of command echo response	L2CAP, 4.9	C.20	<input checked="" type="radio"/> <input type="radio"/>
6	Support of command information request	L2CAP, 4.10	C.21	<input checked="" type="radio"/> <input type="radio"/>
7	Support of command information response	L2CAP, 4.11	C.20	<input checked="" type="radio"/> <input type="radio"/>
8	Support of a channel group	L2CAP, 2.2	C.21	<input checked="" type="radio"/> <input type="radio"/>
9	Support of packet for connectionless channel	L2CAP, 3.2	C.21	<input checked="" type="radio"/> <input type="radio"/>
10	Support retransmission mode	L2CAP, 8.5	C.21	<input type="radio"/> <input checked="" type="radio"/>
11	Support flow control mode	L2CAP, 8.5	C.21	<input type="radio"/> <input checked="" type="radio"/>
12	Enhanced Retransmission Mode ?	L2CAP, 8.6	C.1, C.13	<input checked="" type="radio"/> <input type="radio"/>
13	Streaming Mode ?	L2CAP, 8.7	C.1, C.14	<input checked="" type="radio"/> <input type="radio"/>
14	FCS Option	L2CAP, 5.5	C.2	<input checked="" type="radio"/> <input type="radio"/>
15	Generate Local Busy Condition	L2CAP, 8.6.4.3	C.3	<input checked="" type="radio"/> <input type="radio"/>

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16	Send Reject	L2CAP 8.6.1.2	C.3		
17	Send Selective Reject	L2CAP 8.6.1.3	C.3		
18	Mandatory use of ERTM	L2CAP, 8.6	C.4		
19	Mandatory use of Streaming Mode	L2CAP, 8.7	C.5		
20	Optional use of ERTM	L2CAP, 8.6	C.4		
21	Optional use of Streaming Mode 	L2CAP, 8.7	C.5		
22	Send data using SAR in ERTM	L2CAP, 3.3.2	C.6		
23	Send data using SAR in Streaming Mode	L2CAP, 3.3.2	C.7		
24	Actively request Basic Mode for a PSM that supports the use of ERTM or Streaming Mode	L2CAP, 5.4	C.8		
25	Supports performing L2CAP channel mode configuration fallback from SM to ERTM	L2CAP, 5.4	C.9		
26	Supports sending more than one unacknowledged I-Frame when operating in ERTM	L2CAP, 8.6.5	C.10		
27	Supports sending more than three unacknowledged I-Frame when operating in ERTM	L2CAP, 8.6.5	C.10		
28	Supports configuring the peer TxWindow greater than 1. 	L2CAP, 5.4	C.11		
29	AMP Support 	L2CAP, 9	C.12		
30	Fixed Channel Support	L2CAP, 2.1	C.12		
31	AMP Manager Support	L2CAP 2.1	C.12		
32	ERTM over AMP	L2CAP, 9	C.12		
33	Streaming Mode Source over AMP Support	L2CAP, 3.3, 8.7	C.15		
34	Streaming Mode Sink over AMP Support	L2CAP, 3.3, 8.7	C.15		
35	Unicast Connectionless Data, Reception	L2CAP, 3.3, L2CAP, 7.6	C.16		
36	Ability to transmit an unencrypted packet over a unicast connectionless L2CAP channel	L2CAP, 7.6	C.16		
37	Ability to transmit an encrypted packet over a unicast connectionless L2CAP channel.	L2CAP, 7.6, GAP, 5.2.2	C.16		
38	Extended Flow Specification for BR/EDR 	L2CAP, 7.10	C.8		
39	Extended Window Size	L2CAP, 5.7	C.8		
40	Support of Low Energy signaling channel 	[2], 2.1, 2.2	C.17		
41	Support of command reject	[2], 4.10	C.17		
42	Support of Connection Parameter Update Request	[2], 4.20	C.18		
43	Support of Connection Parameter Update Response	[2], 4.21	C.19		
44	Extended Flow Specification for AMP 	[1], 5.6	C.22		

C.1: Mandatory to support at least one of L2CAP 2/12 or 2/13 IF SUM_ICS 31/7 (CSA1) is supported, ELSE Excluded.

C.2: Optional IF (L2CAP 2/12 OR L2CAP 2/13) is claimed, ELSE Excluded.

C.3: Optional IF (L2CAP 2/12 AND L2CAP 2/28) is claimed, ELSE Excluded.

C.4: IF (L2CAP 2/12) is claimed THEN either L2CAP 2/18 OR L2CAP 2/20 are Mandatory, ELSE Excluded.

C.5: IF (L2CAP 2/13) is claimed THEN either L2CAP 2/19 OR L2CAP 2/21 are Mandatory, ELSE Excluded.

C.6: Optional IF (L2CAP 2/12) is claimed, ELSE Excluded.

C.7: Optional IF (L2CAP 2/13) is claimed, ELSE Excluded.

C.8: Optional IF (L2CAP 2/12 OR L2CAP 2/13) is claimed, ELSE Excluded.

C.9: Mandatory IF (L2CAP 2/12 AND L2CAP 2/13 AND L2CAP 2/21) is claimed, ELSE Excluded

C.10: Optional IF (L2CAP 2/12) is claimed, ELSE Excluded

C.11: Optional IF (L2CAP 2/12) is claimed, ELSE Excluded

C.12: Mandatory IF SUM_ICS 31/9 (3.0 + HS) is claimed, ELSE Optional

C.13: Mandatory IF SUM_ICS 31/9 (3.0 + HS) is claimed, ELSE Optional

C.14: Optional IF SUM_ICS 31/8 is claimed, ELSE Excluded

C.15: Optional IF (L2CAP 2/29) is claimed, ELSE Excluded

C.16: Optional IF (SUM_ICS 31/8 OR SUM_ICS 31/9) is claimed, ELSE Excluded

C.17: Mandatory IF (L2CAP 0/2 OR L2CAP 0/3) is claimed, ELSE Excluded.

C.18: Mandatory IF (SUM_ICS 31/10 AND (L2CAP 0/2 OR L2CAP 0/3)) Master role is claimed, ELSE Excluded.

C.19 : Mandatory IF (SUM_ICS 31/10 AND (L2CAP 0/2 OR L2CAP 0/3)) Slave role is claimed, ELSE Excluded.

C.20: Mandatory IF (L2CAP 0/1 OR L2CAP 0/3), is claimed, ELSE Excluded

C.21: Optional IF (L2CAP 0/1 OR L2CAP 0/3), is claimed, ELSE Excluded











C.22: Mandatory IF (L2CAP 2/29) is claimed, ELSE Excluded.













1.3.3 Configurable Parameters

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Table 3: Configurable Parameters

"L2CAP" Reference applies to either [1] Core Specification v3.0+HS or [2] Core Specification v4.0.

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Support of RTX timer	L2CAP, 6.2.1	C.4	
2	Support of ERTX timer	L2CAP, 6.2.2	C.4	
3	Support minimum MTU size 48 octets	L2CAP, 5.1	C.4	
4	Support MTU size larger than 48 octets	L2CAP, 5.1	C.5	
5	Support of flush timeout value for reliable channel	L2CAP, 5.2	C.4	
6	Support of flush timeout value for unreliable channel	L2CAP, 5.2	C.5	
7	Support of bi-directional quality of service (QoS) option field	L2CAP, 5.3	C.1	
8	Negotiate QoS service type 	L2CAP, 5.3	C.5	
9	Negotiate and support service type 'No Traffic'	L2CAP, 5.3	C.2	

10	Negotiate and support service type 'Best effort'	L2CAP, 5.3	C.3	 
11	Negotiate and support service type 'Gauranteed'	L2CAP, 5.3	C.2	 
12	Support minimum MTU size 23 octets	[2], 5.1	C.6	 
13	Negotiate and support service type 'No traffic' for Extended Flow Specification	[1], 5.6	C.7	 
14	Negotiate and support service type 'Best Effort' for Extended Flow Specification	[1], 5.6	C.8	 
15	Negotiate and support service type 'Guaranteed' for Extended Flow Specification.	[1], 5.6	C.9	 

C.1: Mandatory if L2CAP, 3/8 (Negotiate QoS service type) is supported, otherwise optional.

C.2: Optional if L2CAP, 3/8 (Negotiate QoS service type) is supported, otherwise excluded.

C.3: Mandatory if L2CAP, 3/8 (Negotiate QoS service type) is supported, otherwise excluded.

C.4: Mandatory IF (L2CAP 0/1 OR 0/3) is claimed, ELSE Excluded.

C.5: Optional IF (L2CAP 0/1 OR 0/3) is claimed, ELSE Excluded.

C.6: Mandatory IF (L2CAP 0/2 OR L2CAP 0/3) is claimed, ELSE Excluded.

C.7 Optional if L2CAP 2/40 (Extended Flow Specification for AMP) OR L2CAP 2/38 (Extended Flow Specification for BR/EDR) is supported, ELSE Excluded"

C.8 Mandatory if L2CAP 2/40 (Extended Flow Specification for AMP) OR L2CAP 2/38 (Extended Flow Specification for BR/EDR) is supported, ELSE Excluded"

C.9 Optional if L2CAP 2/40 (Extended Flow Specification for AMP) OR L2CAP 2/38 (Extended Flow Specification for BR/EDR) is supported, ELSE Excluded".

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