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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](#)]**Host Controller Interface**
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2.1 Generic Events

[\[top \]](#)**Table 1: Generic Events**

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Command Complete	7.7.14	M	<input checked="" type="radio"/> <input type="radio"/>
1a	Support all HCI Commands	N/A	C.1	<input type="radio"/> <input checked="" type="radio"/>

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

Table 1a: Roles

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	BR/EDR Controller	2.0	O.1	<input checked="" type="radio"/> <input type="radio"/>
2	Host	2.0	O.1	<input checked="" type="radio"/> <input type="radio"/>

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

2.2 Device Setup

[\[top \]](#)**Table 2: Device Setup**

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Reset Command	7.3.2	M	<input checked="" type="radio"/> <input type="radio"/>

2.3 Controller Flow Control

[\[top \]](#)**Table 3: Controller Flow Control**











Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Read Buffer Size Command	7.4.5	M	<input checked="" type="radio"/> <input type="radio"/>
2	Read Data Block Size Command	7.4.7	O	<input type="radio"/> <input checked="" type="radio"/>
3	Read Flow Control Mode Command	7.3.72	O	<input type="radio"/> <input checked="" type="radio"/>
4	Write Flow Control Mode	7.3.73	O	<input type="radio"/> <input checked="" type="radio"/>

2.4 Controller Information

[\[top \]](#)**Table 4: Controller Information**

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

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









1	Read Local Version Information	7.4.1	M	 
2	Read Local Supported Commands Command	7.4.2	M	 
3	Read Local Supported Features Command	7.4.3	M	 
4	Read Local Extended Features Command	7.4.4	C.1	 
5	Read BD_ADDR Command	7.4.6	M	 

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

2.5 Controller Configuration

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Table 5: Controller Configuration

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Read Local Name Command	7.3.12	M	 
2	Write Local Name Command	7.3.11	M	 
3	Read Class of Device Command	7.3.27	M	 
4	Write Class of Device Command	7.3.28	M	 
5	Read Number Of Supported IAC Command	7.3.45	O	 
6	Read Current IAC LAP Command	7.3.46	O	 
7	Write Current IAC LAP Command	7.3.47	O	 
8	Read Scan Enable Command	7.3.17	O	 
9	Write Scan Enable Command	7.3.18	M	 
10	Write Remote AMP Assoc command 	7.3.10	Excluded	 
11	Write Location Data command 	7.3.70	Excluded	 
12	Read Location Data command 	7.3.71	Excluded	 

2.6 Device Discovery

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Table 6: Device Discovery

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Inquiry Command	7.1.1	C.1	 
2	Inquiry Cancel Command	7.1.2	O	 
3	Periodic Inquiry Mode Command	7.1.3	O	 
4	Exit Periodic Inquiry Mode Command	7.1.4	O	 
5	Read Inquiry Scan Activity Command	7.3.21	O	 
6	Write Inquiry Scan Activity Command	7.3.22	O	 
7	Read Inquiry Scan Type Command	7.3.51	O	 
8	Write Inquiry Scan Type Command	7.3.52	O	 
9	Read Inquiry Mode Command	7.3.53	O	 
10	Write Inquiry Mode Command	7.3.54	O	 
11	Read Inquiry Response Transmit Power Level Command	7.3.57	C.2	 
12	Write Inquiry Transmit Power Level Command	7.3.58	C.2	 
13	Read Extended Inquiry Response Command	7.3.51	C.3	 
14	Write Extended Inquiry Response Command	7.3.52	C.3	 

C.1: Mandatory to support if BB, 10/1 (Support Inquiry) is supported, otherwise optional.























C.2: Mandatory to support if (SUMMARY 21/5 OR SUMMARY 21/6 OR SUMMARY 31/6 OR SUMMARY 31/8 OR SUMMARY 31/9 OR SUMMARY 21/8) is claimed, ELSE Excluded.





C.3: Mandatory to support if (SUMMARY 21/5 OR SUMMARY 21/6 OR SUMMARY 31/6 OR SUMMARY 31/8 OR SUMMARY 31/9 OR SUMMARY 21/8) AND GAP 1/3 is claimed, ELSE Excluded.

2.7 Connection Setup











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Table 7: Connection Setup

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Create Connection Command	7.1.5	M	 
2	Accept Connection Request Command	7.1.8	M	 
3	Reject Connection Request Command	7.1.9	M	 
4	Create Connection Cancel Command	7.1.7	O	 
5	Disconnect Command	7.1.6	M	 
6	Read Page Timeout Command	7.3.15	M	 
7	Write Page Timeout Command	7.3.16	M	 
8	Read Page Scan Activity Command	7.3.19	M	 
9	Write Page Scan Activity Command	7.3.20	M	 
10	Read Page Scan Type Command	7.3.55	O	 
11	Write Page Scan Type Command	7.3.56	O	 



















12	Read Connection Accept Timeout Command	7.3.13	M	 
13	Write Connection Accept Timeout Command	7.3.14	M	 

2.8 Remote Information[\[top \]](#)**Table 8: Remote Information**

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

C.2: Mandatory if LMP 11/3 (Request extended features mask) is supported, otherwise optional.

2.9 Synchronous Connections[\[top \]](#)**Table 9: Synchronous Connections**

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

C.1: Mandatory to support if LMP, 21/1 (Initiating SCO links, as Master), or LMP, 21/2 (Initiating SCO links, as Slave) is supported, otherwise optional.























C.2: Mandatory to support if LMP, 21/3 (Accept SCO links) is supported, otherwise optional.

C.3: Mandatory to support if LMP, 21/3 (Accept SCO links) is NOT supported, otherwise optional.

C.4: Mandatory to support if LMP, 21/1 (Initiating SCO links, as Master) OR 21/2 (Initiating SCO links, as Slave) OR 21/3 (Accept SCO links) is supported, otherwise optional.

C.5: Optional to support IF (SUMMARY 21/5 OR SUMMARY 21/6 OR SUMMARY 31/6 OR SUMMARY 31/8 OR SUMMARY 31/9 OR SUMMARY 21/8) is supported, otherwise Excluded.

2.10 Connection State[\[top \]](#)**Table 10: Connection State**

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





C.1: Mandatory to support if LMP, 15/1 (Force hold mode) is supported, otherwise optional.

C.2: Mandatory to support if LMP, 16/2 (Request sniff mode) is supported, otherwise optional.

C.3: Mandatory to support if LMP, 17/2 (Request park mode) is supported, otherwise optional.



C.4: Mandatory to support if LMP, 2/9 (Park mode) is supported, otherwise optional.























2.11 Piconet Structure[\[top \]](#)**Table 11: Piconet Structure**

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

C.1: Mandatory to support IF LMP, 13/1 (Request Master Slave switch) is supported, otherwise Optional.

2.12 Quality of Service[\[top \]](#)**Table 12: Quality of Service**

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Flow Specification Command	7.2.13	M	 

2	QoS Setup Command	7.2.6	M		
3	Flush Command	7.3.4	M		
4	Read Automatic Flush Timeout Command	7.3.31	M		
5	Write Automatic Flush Timeout Command	7.3.32	M		
6	Read Failed Contact Counter Command	7.5.1	M		
7	Reset Failed Contact Counter Command	7.5.2	M		
8	Read Num Broadcast Retransmissions Command	7.3.33	C.4		
9	Write Num Broadcast Retransmissions Command	7.3.34	C.4		
10	Enhanced Flush Command	7.3.62	C.3		
17	Sniff Subrating Command	7.2.12	C.2		
18	Sniff Subrating Event	7.7.37	C.2		

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








C.3: Mandatory IF (SUMMARY 21/5 OR SUMMARY 21/6 OR SUMMARY 31/6 OR SUMMARY 31/8 OR SUMMARY 31/9 OR SUMMARY 21/8) is supported.

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

2.13 Physical Links

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Table 13: Physical Links

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

C.1: Mandatory to support if LMP, 19/1 (Set link supervision timeout value) is supported, otherwise optional.

C.2: Mandatory to support if LMP, 26/6 (Support of Channel Classification) is supported, otherwise optional.





























C.3: Mandatory to support if LMP, 2/1 (3-slot packets) and/or LMP, 2/2 (5-slot packets) is supported, otherwise optional.

C.4: Mandatory IF (SUMMARY 21/5 OR SUMMARY 21/6 OR SUMMARY 31/6 OR SUMMARY 31/8 OR SUMMARY 31/9 OR SUMMARY 21/8) is supported, ELSE Excluded.

2.14 Host Flow Control

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Table 14: Host Flow Control

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	Host Buffer Size Command	7.3.41	O		
2	Set Event Mask Command	7.3.1	O		
3	Set Event Filter Command	7.3.3	O		
4	Set Controller To Host Flow Control Command	7.3.40	O		
5	Host Number Of Completed Packets Command	7.3.42	O		
6	Read Synchronous Flow Control Enable Command	7.3.38	O		
7	Write Synchronous Flow Control Enable Command	7.3.39	O		
9	Read Data Block Size	7.4.7	O		
10	Read Flow Control Mode	7.3.72	O		
11	Write Flow Control Mode	7.3.73	O		
12	Number of Completed Packets Event	7.7.19	O		
13	Data Buffer Overflow Event	7.7.26	O		
15	Read LE Host Support Command	7.3.38	O		
16	Write LE Host Support Command	7.3.39	O		

2.15 Link Information

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Table 15: Link Information

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

C.1: Mandatory to support if LMP, 2/10 (Power Control) is supported, otherwise optional.

C.2: Mandatory to support if LMP, 2/13 (RSSI) is supported, otherwise optional.

C.3: Mandatory to support if LMP, 26/6 (Support of Channel Classification) is supported, otherwise optional.

2.16 Authentication and Encryption

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Table 16: Authentication and Encryption

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Read Authentication Enable Command	7.3.23	C.1	<input checked="" type="radio"/> <input type="radio"/>
2	Write Authentication Enable Command	7.3.24	C.1	<input checked="" type="radio"/> <input type="radio"/>
3	Read Encryption Mode Command	7.3.25	C.2	<input checked="" type="radio"/> <input type="radio"/>
4	Write Encryption Mode Command	7.3.26	C.2	<input checked="" type="radio"/> <input type="radio"/>
5	Link Key Request Reply Command	7.1.10	M	<input checked="" type="radio"/> <input type="radio"/>
6	Link Key Request Negative Reply Command	7.1.11	M	<input checked="" type="radio"/> <input type="radio"/>
7	PIN Code Request Reply Command	7.1.12	M	<input checked="" type="radio"/> <input type="radio"/>
8	PIN Code Request Negative Reply Command	7.1.13	M	<input checked="" type="radio"/> <input type="radio"/>
9	Authentication Requested Command	7.1.15	O	<input checked="" type="radio"/> <input type="radio"/>
10	Set Connection Encryption Command	7.1.16	C.2	<input checked="" type="radio"/> <input type="radio"/>
11	Change Connection Link Key Command	7.1.17	O	<input checked="" type="radio"/> <input type="radio"/>
12	Master Link Key Command	7.1.18	C.3	<input checked="" type="radio"/> <input type="radio"/>
13	Read PIN Type Command	7.3.5	C.4	<input checked="" type="radio"/> <input type="radio"/>
14	Write PIN Type Command	7.3.6	C.4	<input checked="" type="radio"/> <input type="radio"/>
15	Read Stored Link Key Command	7.3.8	O	<input checked="" type="radio"/> <input type="radio"/>
16	Write Stored Link Key Command	7.3.9	O	<input checked="" type="radio"/> <input type="radio"/>
17	Delete Stored Link Key Command	7.3.10	O	<input checked="" type="radio"/> <input type="radio"/>
18	Create New Unit Key Command	7.3.7	C.5	<input checked="" type="radio"/> <input type="radio"/>
19	User Confirmation Request Reply Command	7.1.30	C.6	<input checked="" type="radio"/> <input type="radio"/>
20	User Confirmation Request Negative Reply Command	7.1.31	C.6	<input checked="" type="radio"/> <input type="radio"/>
21	User Passkey Request Reply Command	7.1.32	C.6	<input checked="" type="radio"/> <input type="radio"/>
22	User Passkey Request Negative Reply Command	7.1.33	C.6	<input checked="" type="radio"/> <input type="radio"/>
23	IO Capability Response Command	7.1.29	C.6	<input checked="" type="radio"/> <input type="radio"/>
24a	Remote OOB Data Request Reply Command	7.1.34	C.6	<input checked="" type="radio"/> <input type="radio"/>
25	Remote OOB Data Request Negative Reply Command	7.1.35	C.6	<input checked="" type="radio"/> <input type="radio"/>
26	Read Local OOB Data Command	7.3.56	C.6	<input checked="" type="radio"/> <input type="radio"/>
27	Write Simple Pairing Mode Command	7.3.55	C.6	<input checked="" type="radio"/> <input type="radio"/>
28	Read Simple Pairing Mode Command	7.3.54	C.6	<input checked="" type="radio"/> <input type="radio"/>
29	Refresh Encryption Key Command	7.3.53	C.7	<input checked="" type="radio"/> <input type="radio"/>
30	Read Encryption Key Size Command	7.5.7	C.8	<input type="radio"/> <input checked="" type="radio"/>
31	Send Keypress Notification Command	7.3.63	C.9	<input checked="" type="radio"/> <input type="radio"/>
37	Encryption Change Event	7.7.8	C.2	<input checked="" type="radio"/> <input type="radio"/>
38	Encryption Key Refresh Complete Event	7.7.39	C.2	<input checked="" type="radio"/> <input type="radio"/>

C.1: Mandatory to support if LMP, 3/1 (Initiate authentication before connection completed) is supported, otherwise optional.

C.2: Mandatory to support if LMP, 6/1 (Initiate encryption) is supported, otherwise optional.

C.3: Mandatory to support if LMP, 2/14 (Broadcast encryption) and LMP 6/6 (Start encryption, as master) are supported, otherwise optional.

C.4: Mandatory to support if LMP, 4/5 (Use variable PIN) is supported, otherwise optional.

C.5: Mandatory to support if LMP, 5/1 (Creation of link key - Unit Key) is supported, otherwise optional.

C.6: Mandatory IF (SUMMARY 21/5 OR SUMMARY 21/6 OR SUMMARY 31/6 OR SUMMARY 31/8 OR SUMMARY 31/9 OR SUMMARY 21/8) is supported, ELSE Optional

C.6 Mandatory IF (SUMMARY 21/5 OR SUMMARY 21/6 OR SUMMARY 31/6 OR SUMMARY 31/8 OR SUMMARY 31/9 OR SUMMARY 21/8) is supported, ELSE Excluded.

C.8 Optional IF (SUMMARY 21/5 OR SUMMARY 21/6 OR SUMMARY 31/6 OR SUMMARY 31/8 OR SUMMARY 31/9 OR SUMMARY 21/8) is supported, ELSE Excluded

C.9 Optional IF (SUMMARY 21/5 OR SUMMARY 21/6 OR SUMMARY 31/6 OR SUMMARY 31/8 OR SUMMARY 31/9 OR SUMMARY 21/8) is supported, ELSE Excluded

2.17 Testing

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Table 17: Testing

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Read Loopback Mode Command	7.6.1	O	<input checked="" type="radio"/> <input type="radio"/>
2	Write Loopback Mode Command	7.6.2	O	<input checked="" type="radio"/> <input type="radio"/>
3	Enable Device Under Test Mode Command	7.6.3	O	<input checked="" type="radio"/> <input type="radio"/>
4	Write Simple Pairing Debug Mode Command	7.6.4	C.1	<input checked="" type="radio"/> <input type="radio"/>


C.1 Mandatory IF (SUMMARY 21/5 OR SUMMARY 21/6 OR SUMMARY 31/6 OR SUMMARY 31/8 OR SUMMARY 31/9 OR SUMMARY 21/8) is supported, ELSE Excluded.

Update PICS Information

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