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Step 4 - Project: BT + LE PSS

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Product Type Verification	Status
Product Type Selection in PROD Table: **Profile Subsystem**	Valid
Product Type Selection from Dropdown: **Profile Subsystem**	

• **Product Type Conformance Check:** **Profile Subsystem**
-- All mandatory profiles are being claimed. --

PROFILE: [A2DP AVRCP BIP BPP 1.2 DUN DID FAX FTP GAVDP HFP 1.5 HDP **HID** HSP IOP MAP MCAP OPP PBAP SAP SPP SYNC]

Human Interface Device
External to Core

[Update PICS Information]   TOOLS: [Consistency Check]

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HID Roles   [top]

Table 1: Roles

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Host, Report protocol ?	5.0	O.1	⦿ ○
2	HID Role ?	6.0	O.1	⦿ ○
3	Host, Boot protocol ?	5.0	C.1	○ ⦿

O.1: It is Mandatory to support One of these roles.
C.1: Excluded if Host Role (1/1) is supported; otherwise Optional.

[Update PICS Information]   TOOLS: [Consistency Check]

Host Application Procedures   [top]

Table 2: Application Procedures

Prerequisite: (1/1)
NOTE: Items 10 and 11 are not Prerequisites for 1/1 due to Boot Mode Host dependencies on these items

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Establish HID connection	7.1.1	M.1	⦿ ○
2	Accept HID connection	7.1.1	M.1	⦿ ○
3	Terminate HID connection	7.1.1	M.1	⦿ ○
4	Accept Termination of HID connection	7.1.1	M.1	⦿ ○
5	Support for virtual cables	6.4	M.1	⦿ ○
6	HID initiated reconnection	6.4	M.1	⦿ ○
7	Host initiated reconnection	6.4	M.1	⦿ ○
8	Host data transfer to HID	7.1.4	C.1	⦿ ○
9	HID data transfer to Host	7.1.3	C.1	⦿ ○
10	HID Boot mode data transfer to Host	7.2.1	C.2	⦿ ○
11	Host Boot mode data transfer to HID	7.2.1	C.2	⦿ ○
12	Support for Appication to send GET_Report ?	7.4.3	O	○ ⦿
13	Support for Application to send SET_REPORT ?	7.4.4	O	○ ⦿

M.1: Mandatory to support IF (1/1) supported.
C.1: Excluded for Boot Mode Only Hosts (1/3); otherwise Mandatory for Host Role (1/1)
C.2: Mandatory for Boot Mode Only Hosts (1/3); otherwise Optional

HID Protocol Procedures   [top]

Table 3: Device to Host Transfers

Prerequisite: (1/1) OR (1/3)

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

1	Data reports larger than host MTU on Control channel	7.4.10	C.1	⦿	○
2	Data reports larger than host MTU on Interrupt channel	7.4.10	C.1	⦿	○
3	Data reports to host	7.4.9	C.1	⦿	○
4	Boot mode reports to host	7.2.1	C.2	⦿	○

C.1: Excluded for Boot Mode Only Hosts (1/3); otherwise Mandatory for Host Role (1/1)
C.2: Mandatory for Boot Mode Only Hosts (1/3); otherwise Optional

Table 4: Host to Device Transfers

Prerequisite: (1/1)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	Data reports larger than device MTU on Control channel	7.4.10	C.1	⦿	○
2	Data reports larger than device MTU on Interrupt channel	7.4.10	C.1	⦿	○
3	Data reports to device	7.4.9	C.2	⦿	○
4	Boot mode reports to device	7.2.1	O	⦿	○

C.1: Excluded for Boot Mode Only Hosts (1/3); otherwise Optional
C.2: Excluded for Boot Mode Only Hosts (1/3); otherwise Mandatory for Host Role (1/1)

Table 5: HID Control Commands

Prerequisite: (1/1)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	Set_Protocol command ?	7.4.6	C.1	⦿	○
2	Get_Protocol command ?	7.4.5	C.1	⦿	○
3	Set_Idle command	7.4.8	O	⦿	○
4	Get_Idle command	7.4.7	O	⦿	○
5	Set_Report command	7.4.4	M.1	⦿	○
6	Get_Report command	7.4.3	M.2	⦿	○

M.1: Mandatory IF (1/1) supported AND (2/13) supported.
C.1: Mandatory for Boot Mode Only Hosts (1/3); otherwise Optional. If either Set_Protocol or Get_Protocol supported, both are Mandatory.
*M.2: Mandatory IF (1/1) Supported AND (2/12) Supported*

Link Manager Procedures [top]

Table 6: Host Link Manager Procedures

Prerequisite: (1/1)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	Initiate Authentication before connection completed ?	6.7.1.1	C.1	⦿	○
2	Initiate Authentication after connection completed ?	6.7.1.1	C.1	⦿	○
3	Initiate pairing before connection completed ?	6.7.1.1	C.2	⦿	○
4	Initiate pairing after connection completed ?	6.7.1.1	C.2	⦿	○
5	Encryption ?	9.0	O	⦿	○
6	Initiate encryption	9.0	C.3	⦿	○
7	Accept encryption requests	9.0	C.3	⦿	○
8	Role switch (Master/Slave)	9.0	M.1	⦿	○
9	Request Master Slave switch	9.0	M.1	⦿	○
10	Accept Master Slave switch requests	9.0	M.1	⦿	○
11	Hold Mode	9.0	O	○	⦿
12	Sniff mode	9.0	M.1	⦿	○
13	Park mode	9.0	O	⦿	○

C.1: IF Host Authentication supported, both (6/1) AND (6/2) must be supported.
C.2: IF Pairing supported both (6/3) AND (6/4) must be supported.
M.1: Mandatory IF (1/1) supported.
C.3: Mandatory IF (6/5) encryption supported

Link Control Requirements [top]

Table 7: Host Link Control Requirements

Prerequisite: (1/1)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	Supports inquiry, 79 channel	10.7.3	M.1	⦿	○
2	Supports inquiry scan, 79 channel	B:10.7.2	X	○	⦿

M.1: Mandatory to support IF (1/1) supported.
X: Feature should not be used by a Host, but can be supported in LM.

[Update PICS Information]

TOOLS: [Consistency Check]

HID Device Roles [top]

Table 8: HID Device Roles

Prerequisite: (1/2)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	Pointing HID ?	6.0	O.1	◉	○
2	Keyboard HID ?	6.0	O.1	◉	○
3	Identification HID ?	6.0	O.1	◉	○
4	Other HID	6.0	O.1	◉	○

O.1: It is Mandatory to support One of these roles IF (1/2) is selected

HID Application Procedures [top]

Table 9: HID Application Procedures

Prerequisite: (1/2)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	Establish HID connection	7.1.1	O	○	◉
2	Accept HID connection	7.1.1	M.1	◉	○
3	Terminate HID connection	7.1.1	O	◉	○
4	Accept Termination of HID connection	7.1.1	M.1	◉	○
5	Support for virtual cables	6.4	O	◉	○
6	HID initiated reconnection ?	6.4	C.1	◉	○
7	Host initiated reconnection	6.4	C.1	○	◉
8	Host data transfer to HID	7.1.4	C.2	◉	○
9	HID data transfer to Host	7.1.3	C.2	◉	○
10	HID Boot mode data transfer to Host	7.2.1	C.3	◉	○
11	Host Boot mode data transfer to HID	7.2.1	C.4	◉	○
12	Output reports declared ?	7.4.4	C.4	◉	○
13	Input reports declared ?	7.4.3	C.3	◉	○
14	Feature reports declared ?	7.4.3, 7.4.4	O	○	◉

M.1: Mandatory IF (1/2) supported.
C.1: One of these is Mandatory IF (9/5) is supported (SDP attribute 0x204=True)
C.2: One of these is Mandatory.
C.3: Mandatory IF (8/1) OR (8/2) is selected
C.4: Mandatory IF (8/2) is supported (for status indicators)

HID Protocol Procedures [top]

Table 10: Device to Host Transfers

Prerequisite: (1/2)
*NOTE: If the device declares an input report **(a device to host data transfer)** in its HID descriptor, SDP attribute 0x20B, mark the following features if applicable. All tests are applicable to hosts.*

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	Data reports larger than host MTU on Control channel	7.4.10	O	◉	○
2	Data reports larger than host MTU on Interrupt channel	7.4.10	O	◉	○
3	Data reports to host	7.4.9	O	◉	○
4	Boot mode reports to host	7.2.1	C.1	◉	○

C.1: Mandatory IF (8/1) OR (8/2) is supported. Optional for other HIDs.

Table 11: Host to Device Transfers

*Note: If the device declares output reports **(a host to device data transfer)** in its HID descriptor, SDP attribute 0x20B; mark the following features if applicable.*
Prerequisite: (1/2)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	Data reports larger than device MTU on Control channel	7.4.10	O	◉	○
2	Data reports larger than device MTU on Interrupt channel	7.4.10	O	◉	○
3	Data reports to device	7.4.9	O	◉	○
4	Boot mode reports to device	7.2.1	C.1	◉	○

C.1: Mandatory IF (8/2) is supported. Optional for other HIDs.

Table 12: HID Control Commands

Prerequisite: (1/2)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	Set_Protocol command ?	7.4.6	C.1	◉	○
2	Get_Protocol command ?	7.4.5	C.1	◉	○
3	Set_Idle command	7.4.8	C.2	◉	○
4	Get_Idle command	7.4.7	C.2	◉	○
5	Set_Report command	7.4.4	C.3	◉	○

| | 6 | Get_Report command | 7.4.3 | C.4 | ⦿ | ○ |

C.1: Mandatory IF (8/1) OR (8/2) is supported. Optional for other HIDs. If either Set_Protocol or Get_Protocol supported, both are Mandatory.
C.2: Mandatory IF (8/2) Keyboard is selected. Optional for other HIDs.
C.3: Mandatory if (9/12) or (9/14) supported.
C.4: Mandatory if (9/13) or (9/14) supported

HID Link Manager Procedures   [top]

Table 13: HID Link Manager Procedures

Prerequisite: (1/2)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	Initiate Authentication before connection completed	6.7.1.1	O	⦿	○
2	Initiate Authentication after connection	6.7.1.1	O	⦿	○
3	Initiate pairing before connection completed	6.7.1.1	X	○	⦿
4	Initiate pairing after connection completed	6.7.1.1	X	○	⦿
5	Encryption ?	9.0	C.1	⦿	○
6	Initiate encryption	9.0	O	⦿	○
7	Accept encryption requests	9.0	C.2	⦿	○
8	Role switch (Master/Slave)	9.0	C.3	⦿	○
9	Request Master Slave switch	9.0	O	⦿	○
10	Accept Master Slave switch requests	9.0	C.3	⦿	○
11	Hold mode	9.0	O	○	⦿
12	Sniff mode	9.0	O	⦿	○
13	Park mode	9.0	O	⦿	○

C.1: Mandatory IF (8/2) OR (8/3) is selected. Optional for other HIDs.
C.2: Mandatory IF (13/5) supported.
C.3: Mandatory IF (9/6) is supported.
X: Feature should not be used by a HID device, but can be supported in LM.

Link Control Requirements   [top]

Table 14: HID Link Control Requirements

Prerequisite: (1/2)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	Supports inquiry, 79 channel	10.7.3	O	⦿	○
2	Supports inquiry scan, 79 channel	10.7.2	M.1	⦿	○

M.1: Mandatory IF 1/2 is supported.

Update PICS Information   TOOLS: [Consistency Check]

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