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SPECIAL INTEREST GROUP

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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]

Health Device Profile
External to Core

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CAPABILITIES STATEMENT   [top]

Table 1: Roles

Prerequisite: SUMMARY-ICS 3-1/3 OR 3-1/4 OR 3-1/5 OR 3-1/6 (Supports Host 2.0 or later)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Supports Source Role ?	MCAP 3.4	C.1, C.2	⊙ ○
2	Supports Sink Role ?	MCAP 3.4	C.1, C.3	⊙ ○

C.1: At least one of the defined roles is Mandatory.
C.2: Prerequisite: MCAP Table 1/1 (Source Role)
C.3: Prerequisite: MCAP Table 1/2 (Sink Role)
BB:10/7 Mandatory if HDP:1/1 is Supported
DID:0/2 Mandatory if HDP:1/2 is Supported
GAP:2/1 Mandatory if HDP:1/1 is Supported
SDP:9/14 Mandatory if HDP:1/2 is Supported
SDP:9/2 Mandatory if HDP:1/2 is Supported
L2CAP:2/22 Mandatory if HDP:1/2 is Supported
L2CAP:2/23 Mandatory if HDP:1/2 is Supported
L2CAP:2/22 Mandatory if HDP:1/1 is Supported
SDP:4/3 Mandatory if HDP:1/2 is Supported
SDP:6/3 Mandatory if HDP:1/2 is Supported

[Update PICS Information]   TOOLS: [Consistency Check]

GAP Features - Source   [top]

Table 2: GAP Features - Source

Prerequisite: MCAP Table 1/1 (Supports Source Role)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Supports General-discoverable Mode	3.1.1	M	⊙ ○
2	Supports Bondable Mode (Original Item GAP:1/7 Status: C.x)	3.1.1	M	⊙ ○
3	Supports Response to Authentication requests	3.1.2	M	⊙ ○
4	Supports Initiation of Authentication	3.1.2	M	⊙ ○
5	Supports Acceptance of Encryption	3.1.2	M	⊙ ○
6	Supports Initiation of Encryption	3.1.2	M	⊙ ○
7	Supports General Inquiry	3.1.3	C.5	⊙ ○
8	Supports Acceptance of Bonding requests	3.1.3	M	⊙ ○
9	Supports Initiation of Bonding	3.1.3	O	⊙ ○
10	Supports Extended Inquiry Response (Original Item BB:10/7 Status: O)	3.1.4	C.7	⊙ ○

| 11 | Supports use of Health Class of Device | 3.1.5 | O | ⊙ | ○ |

C.5: Mandatory if Table 2/9 (initiation of Bonding) is supported, otherwise Optional.
C.7: Mandatory if Bluetooth Core specification 2.1 + EDR or later is supported, ELSE Excluded

L2CAP Features - Source   [top]

Table 3: L2CAP Features - Source

Prerequisite: Bluetooth Core Specification 2.0 + EDR or 2.1 + EDR with Volume 3, Part A of Core Specification Addendum 1 or later versions of the Bluetooth Core Specification [1]
Prerequisite: MCAP Table 1/1 (Supports Source Role)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	Supports Reliable Control Channel	3.3.1	M, C.1	⊙	○
2	Uses FCS for Control Channel	3.3.1	M	⊙	○
3	Supports Reliable Data Channel	3.4.1	M, C.1	⊙	○
4	Can send data using SAR in ERTM (Original Item L2CAP:2/22 Status: C.x)	3.4.1	M, C.2	⊙	○
5	Uses FCS for Reliable Data Channel	3.4.1	O	⊙	○
6	Supports FCS option of "No FCS" for Reliable Data Channel	3.4.1	O, C.3	⊙	○
7	Supports Streaming Data Channel ⍰	3.4.2	O, C.4	⊙	○
8	Can send data using SAR in SM (Original Item L2CAP:2/23 Status: C.x)	3.4.2	C.5, C.6	⊙	○
9	Uses FCS for Steaming Data Channel	3.4.2	C.7	⊙	○
10	Supports FCS option of "No FCS" for Streaming Data Channel	3.4.2	C.3, C.7	⊙	○
11	Maximum number of simultaneous Data Channels supported (DCmax) per MCL	3.4	M, C.8	⊙	○

C.1: Prerequisite: L2CAP Table 2/12 (Supports ERTM)
C.2: Prerequisite: L2CAP Table 2/22 (Supports Can send data using SAR in ERTM)
C.3: Prerequisite: L2CAP Table 2/14 (Supports FCS Option)
C.4: Prerequisite: L2CAP Table 2/13 (Supports SM)
C.5: Prerequisite: L2CAP Table 2/23 (Supports Can send data using SAR in SM)
C.6: Mandatory if Table 3/7 (Supports Streaming Data Channel) is supported, otherwise Excluded
C.7: Optional if Table 3/7 (Supports Streaming Data Channel) is claimed, otherwise Excluded
C.8: = 2 if Table 3/7 (Supports Streaming Data Channel) is claimed, otherwise = 1.
L2CAP:2/23 Mandatory if HDP:3/7 is Supported

SDP Attributes - Source   [top]

Table 4: SDP Attributes - Source

Prerequisite: MCAP Table 1/1 (Supports Source Role)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	Supports advertisement of HDP Service Record ⍰	5.0	C.1, C.4	⊙	○
2	Service Class ID List	5.2.2	C.2	⊙	○
3	Protocol Descriptor List (Original Item SDP:9/2 Status: O)	5.2.3	C.2	⊙	○
4	Bluetooth Profile Descriptor List (Original Item SDP:9/14 Status: O)	5.2.4	C.2	⊙	○
5	Additional Protocol Descriptor Lists	5.2.5	C.2	⊙	○
6	Service Name (Original Item SDP:9/9 Status: O)	5.2.6	O	⊙	○
7	Service Description (Original Item SDP:9/10 Status: O)	5.2.7	O	⊙	○
8	Provider Name (Original Item SDP:9/11 Status: O)	5.2.8	O	⊙	○
9	HDP Supported Features (MDEP List)	5.2.9	C.3	⊙	○
10	MCAP Data Exchange Specification	5.2.10	C.3	⊙	○
11	MCAP Supported Procedures	5.2.11	C.3	⊙	○

C.1: Mandatory if Table 6/3 (Supports Acceptance of Control and Data Channel Connection) is supported, otherwise Excluded.
C.2: Mandatory if Table 4/1 (Supports advertisement of HDP Service Record) is supported, otherwise Optional.
C.3: Mandatory if Table 4/1 (Supports advertisement of HDP Service Record) is supported, otherwise Excluded
DID:0/2 Mandatory if HDP:4/1 is Supported
SDP:4/3 Mandatory if HDP:4/1 is Supported
SDP:6/3 Mandatory if HDP:4/1 is Supported
SDP:9/14 Mandatory if HDP:4/1 is Supported
SDP:9/2 Mandatory if HDP:4/1 is Supported
C.4 Mandatory to support SDP Server Role (SDP 1b/1) if this item is supported.

Device Identification - Source   [top]

Table 5: Device Identification - Source

Prerequisite: MCAP Table 1/1 (Supports Source Role)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	Device Identification Profile v1.3 or later (Original Item DID:0/2 Status: C.x)	[11], 5.3	C.1	⊙	○

C.1: Mandatory if Table 4/1 (Supports advertisement of HDP Service Record) is supported, otherwise Optional.

HDP Features - Source   [top]

Table 6: HDP Features - Source

Prerequisite: MCAP Table 1/1 (Supports Source Role)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Supports Standard Op Codes	3.2	M	● ○
2	Supports Initiate creation of Control and Data Channels	4.3 [4]	C.3, C.7	● ○
3	Supports Accept creation of Control and Data Channels	4.3 [4]	C.3, C.8	● ○
4	Supports Initiate Reconnection of MDL	4.3 [4]	O	● ○
5	Supports Accept Reconnection of MDL	4.3 [4]	C.4	● ○
6	Supports Clock Synchronization Protocol	3.2	O	○ ●
7	Supports Sync-Slave	5.1.3.2 [4]	C.5	○ ●
8	Supports Sync-Slave	5.1.3.2 [4]	C.6	○ ●

C.3: Support for at least one of Table 6/2 (Supports Initiate creation of Control and Data Channels) or Table 6/3 (Supports Accept creation of Control and Data Channels) is Mandatory.
C.4: Mandatory if Table 6/3 (Accept creation of Control and Data Channels) is supported, otherwise Excluded.
C.5: Mandatory if Table 6/6 (Supports Clock Synchronization Protocol) is supported, otherwise Excluded.
C.6: Optional if Table 6/6 (Supports Clock Synchronization Protocol) is supported, otherwise Excluded.
C.7: Mandatory to support SDP Client Role (SDP 1b/2) if this item is supported.
C.8: Mandatory to: support SDP Server Role (SDP 1b/1) if this item is supported.

Data Exchange Features - Source   [top]

Table 7: Data Exchange Features - Source

Prerequisite: MCAP Table 1/1 (Supports Source Role)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Supports Initiation of Echo Test	5.2.9.1.1	M	● ○
2	Supports Acceptance of Echo Test	5.2.9.1.1	M	● ○
3	Supports IEEE 11073-20601	[6]	M	● ○
4	Supports IEEE 11073-20601 Agent Role	[6]	C.1	● ○
5	Supports IEEE 11073-20601 Manager Role	[6]	C.1	● ○

C.1: If Table 7/3 (Supports IEEE 11073-20601) is supported, at least one of Table 7/4 (Supports IEEE 11073-20601 Agent Role) or Table 7/5 (Supports IEEE 11073-20601 Manager Role) is Mandatory, otherwise Excluded.
C.7: Mandatory to support SDP Client Role (SDP 1b/2) if this item is supported

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GAP Features - Sink   [top]

Table 8: GAP Features - Sink

Prerequisite: MCAP Table 1/2 (Supports Sink Role)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Supports General-discoverable Mode	3.1.1	M	● ○
2	Supports Bondable Mode (Original Item GAP:1/7 Status: C.x)	3.1.1	M	● ○
3	Supports Response to Authentication requests	3.1.2	M	● ○
4	Supports Initiation of Authentication	3.1.2	M	● ○
5	Supports Acceptance of Encryption request	3.1.2	M	● ○
6	Supports Initiation of Encryption	3.1.2	M	● ○
7	Supports General Inquiry	3.1.3	M	● ○
8	Supports Acceptance of Bonding requests	3.1.3	M	● ○
9	Supports Initiation of Bonding	3.1.3	O	● ○
10	Supports Extended Inquiry Response (Original Item BB:10/7 Status: O)	3.1.4	C.7	● ○
11	Supports use of Health Class of Device	3.1.5	O	● ○

C.7: Mandatory if Bluetooth Core specification 2.1 + EDR or later is supported, ELSE Excluded

L2CAP Features - Sink   [top]

Table 9: L2CAP Features - Sink

Prerequisite: Bluetooth Core Specification 2.0 + EDR or 2.1 + EDR with Volume 3, Part A of Core Specification Addendum 1 or later versions of the Bluetooth Core Specification [1]
Prerequisite: MCAP Table 1/2 (Supports Sink Role)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Supports Reliable Control Channel	3.3.1	M	● ○
2	Uses FCS for Control Channel	3.3.1	M	● ○
3	Supports Reliable Data Channel	3.4.1	M	● ○

4	Can send data using SAR in ERTM (Original Item L2CAP:2/22 Status: C.x)	3.4.1	M	⦿	○
5	Uses FCS for Reliable Data Channel	3.4.1	O	⦿	○
6	Supports FCS option of "No FCS" for Reliable Data Channel	3.4.1	O	⦿	○
7	Supports Streaming Data Channel	3.4.2	M	⦿	○
8	Can send data using SAR in SM (Original Item L2CAP:2/23 Status: C.x)	3.4.2	M	⦿	○
9	Uses FCS for Steaming Data Channel	3.4.2	O	⦿	○
10	Supports FCS option of "No FCS" for Streaming Data Channel	3.4.2	O	⦿	○
11	Maximum number of simultaneous Data Channels supported (DCmax) per MCL	3.4	M	⦿	○

C.1: Prerequisite: L2CAP Table 2/12 (Supports ERTM)
C.2: Prerequisite: L2CAP Table 2/22 (Supports Can send data using SAR in ERTM)
C.3: Prerequisite: L2CAP Table 2/14 (Supports FCS Option)
C.4: Prerequisite: L2CAP Table 2/13 (Supports SM)
C.5: Prerequisite: L2CAP Table 2/23 (Supports Can send data using SAR in SM)

SDP Attributes - Sink   [top]

Table 10: SDP Attributes - Sink

Prerequisite: MCAP Table 1/2 (Supports Sink Role)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	Supports advertisement of HDP Service Record	5.0	M, C.1	⦿	○
2	Service Class ID List	5.2.2	M	⦿	○
3	Protocol Descriptor List (Original Item SDP:9/2 Status: O)	5.2.3	M	⦿	○
4	Bluetooth Profile Descriptor List (Original Item SDP:9/14 Status: O)	5.2.4	M	⦿	○
5	Additional Protocol Descriptor Lists	5.2.5	M	⦿	○
6	Service Name (Original Item SDP:9/9 Status: O)	5.2.6	O	⦿	○
7	Service Description (Original Item SDP:9/10 Status: O)	5.2.7	O	⦿	○
8	Provider Name (Original Item SDP:9/11 Status: O)	5.2.8	O	⦿	○
9	HDP Supported Features (MDEP List)	5.2.9	M	⦿	○
10	MCAP Data Exchange Specification	5.2.10	M	⦿	○
11	MCAP Supported Procedures	5.2.11	M	⦿	○

C.1: Mandatory to support SDP Server Role (SDP 1b/1)

Device Identification - Sink   [top]

Table 11: Device Identification - Sink

Prerequisite: MCAP Table 1/2 (Supports Sink Role)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	Device Identification Profile v1.3 or later (Original Item DID:0/2 Status: C.x)	[11], 5.3	M	⦿	○

HDP Features - Sink   [top]

Table 12: HDP Features - Sink

Prerequisite: MCAP Table 1/2 (Supports Sink Role)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	Supports Standard Op Codes	3.2	M	⦿	○
2	Supports Initiate creation of Control and Data Channels	4.3 [4]	M, C.7	⦿	○
3	Supports Accept creation of Control and Data Channels	4.3 [4]	M, C.8	⦿	○
4	Supports Initiate Reconnection of MDL	4.3 [4]	O	⦿	○
5	Supports Accept Reconnection of MDL	4.3 [4]	M	⦿	○
6	Supports Clock Synchronization Protocol	3.2	O	○	⦿
7	Supports Sync-Slave	5.1.3.2 [4]	C.5	○	⦿
8	Supports Sync-Master	5.1.3.2 [4]	C.6	○	⦿

C.1: Mandatory if Table 12/1 (Supports Standard Op Codes) is supported, otherwise Excluded.
C.2: Optional if Table 12/1 (Supports Standard Op Codes) is supported, otherwise Excluded.
C.3: intentionally left blank
C.4: intentionally left blank
C.5: Mandatory if Table 12/6 (Supports Clock Synchronization Protocol) is supported, otherwise Excluded.
C.6: Optional if Table 12/6 (Supports Clock Synchronization Protocol) is supported, otherwise Excluded.
C.6: Optional if Table 12/6 (Supports Clock Synchronization Protocol) is supported, otherwise Excluded.
C.8: Prerequisite: Support for Server Role (SDP 1b/1)
C.7: Prerequisite: Support for Client Role (SDP 1b/2)

Data Exchange Features - Sink   [top]

Table 13: Data Exchange Features - Sink

Prerequisite: MCAP Table 1/2 (Supports Sink Role)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	Supports Initiation of Echo Test	5.2.9.1.1	M	⦿	○
2	Supports Acceptance of Echo Test	5.2.9.1.1	M	⦿	○
3	Supports IEEE 11073-20601	[6]	M	⦿	○
4	Supports IEEE 11073-20601 Agent Role	[6]	C.1	⦿	○
5	Supports IEEE 11073-20601 Manager Role	[6]	C.1	⦿	○

C.1: If Table 13/3 (Supports IEEE 11073-20601) is supported, at least one of Table 13/4 (Supports IEEE 11073-20601 Agent Role) or Table 13/5 (Supports IEEE 11073-20601 Manager Role) is Mandatory, otherwise Excluded.

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