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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]

Hands-Free Profile 1.5
External to Core

[Update PICS Information]

TOOLS: [Consistency Check]

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1.1 Roles   [top]

Table 1: Roles

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Audio Gateway (AG) ?	2.2	O.1	◉ ○
2	Hands-Free (HF) ?	2.2	O.1	◉ ○

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

[Update PICS Information]

TOOLS: [Consistency Check]

1.2 Audio Gateway Capabilities   [top]

Table 2: Audio Gateway Role

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Connection Management	4.2; 4.3	M.1	◉ ○
1a	SLC initiation during active ongoing call	4.2	O	◉ ○
2	Phone Status Information	4.4; 4.5; 4.6; 4.7; 4.8; 4.9; 4.10	M.1	◉ ○
3	Audio connection handling	4.11; 4.12	M.1	◉ ○
3a	Audio connection establishment independent of call processing	4.11; 4.12	O	◉ ○
3b	eSCO support in Audio Connection	5.16	C.7	◉ ○
4a	Accept an incoming voice call (in-band ring)	4.13	C.1	◉ ○
4b	Accept an incoming voice call (no in-band ring)	4.13	C.1	◉ ○
4c	Capability to change the "in-band ring" settings	4.13	O	◉ ○
5	Reject an incoming voice call	4.14	O	◉ ○
6	Terminate a call	4.15	M.1	◉ ○
7	Audio connection transfer during an ongoing call	4.16; 4.17	M.1	◉ ○
7a	HF-initiated Audio transfer to AG during ongoing call	4.17	O	◉ ○
7b	AG releases SLC upon audio connection transfer toward AG	4.17	O	○ ◉
8	Place a call with a phone number supplied by HF	4.18	M.1	◉ ○
9	Place a call using memory dialing	4.19	M.1	◉ ○
10	Place a call to the last number dialed	4.20	M.1	◉ ○
11	Call waiting notification	4.21	M.1	◉ ○
12	Three Way Calling ?	4.22	O	◉ ○
12a	User Busy (AT+CHLD value 0)	4.22	C.3	◉ ○
12b	Call Hold Handling (AT+CHLD value 1,2)	4.22	C.2	◉ ○
12c	Three Way Call (AT+CHLD value 3)	4.22	C.3	◉ ○
12d	Explicit Call Transfer (AT+CHLD value 4)	4.22	C.3	◉ ○
13	Calling Line Identification (CLI)	4.23	M.1	◉ ○
14	Echo canceling (EC) and Noise reduction (NR)	4.24	O	◉ ○
15	Voice recognition activation	4.25	O	◉ ○

15a	Initiate voice recognition from AG	4.25	C.6	⦿	○
15b	Autonomous voice deactivation	4.25	C.6	⦿	○
16	Attach a phone number to a voice tag	4.26	O	⦿	○
17	Ability to transmit DTMF codes	4.27	M.1	⦿	○
18a	Remote audio volume control – speaker ?	4.28.1	O	⦿	○
18b	Remote audio volume control – microphone ?	4.28.1	O	⦿	○
18c	Volume Level Synchronization – speaker and microphone	4.28.2	C.5	⦿	○
19	Response and hold	4.29	O	⦿	○
20	Subscriber Number Information	4.30	M.1	⦿	○
21a	Enhanced Call Status	4.31	C.4	⦿	○
21b	Enhanced Call Control	4.32	C.3	⦿	○
21c	Enhanced Call Status with limited network notification	4.31	C.4	⦿	○
22	Support for automatic link loss recovery	4.2	O	○	⦿

C.2: Mandatory if (2/12); otherwise Excluded.
C.3 Optional if (2/12); otherwise Excluded.
M.1: Mandatory IF (1/1) Selected
C.4: The AG must support one of item 2/21a or 2/21c.
C.6: Optional if 2/15 is supported, otherwise excluded.
C.5: Mandatory if 2/18a or 2/18b, otherwise optional.
C.1: The AG must support one of item 2/4a or 2/4b.
C.7: Optional if BB:2/3 is supported, otherwise excluded.

[Update PICS Information]

TOOLS: [Consistency Check]

1.3 Hands-Free Capabilities   [top]

Table 3: Capabilities of the HF

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	Connection Management	4.2; 4.3	M.1	⦿	○
2a	Phone Status Information ("service" and "call" indicators)	4.4; 4.10	M.1	⦿	○
2b	Phone Status Information ("callsetup" indicator)	4.10	O	⦿	○
2c	Accept indicator of signal strength	4.5	O	⦿	○
2d	Accept indicator of roaming state ("roam:")	4.6	O	⦿	○
2e	Accept indicator of battery level ("battchg")	4.7	O	⦿	○
2f	Accept indicator of operator selection	4.8	O	⦿	○
3	Audio connection handling	4.11; 4.12	M.1	⦿	○
3a	Audio connection establishment independent of call processing	4.11; 4.12	O	⦿	○
3b	eSCO support in Audio Connection	5.16	C.5	⦿	○
4a	Accept an incoming voice call (in-band ring)	4.13	M.1	⦿	○
4b	Accept an incoming voice call (no in-band ring)	4.13	M.1	⦿	○
4c	Accept an incoming voice call (in-band ring muting)	4.13	O	⦿	○
5	Reject an incoming voice call	4.14	M.1	⦿	○
6	Terminate a call	4.15	M.1	⦿	○
7	Audio connection transfer during an ongoing call	4.16; 4.17	M.1	⦿	○
7a	HF-initiated Audio transfer to AG during ongoing call	4.17	O	⦿	○
8	Place a call with a phone number supplied by the HF	4.18	O	⦿	○
9	Place a call using memory dialing	4.19	O	⦿	○
10	Place a call to the last number dialed	4.20	O	⦿	○
11	Call waiting notification	4.21	O	⦿	○
12	Three Way Calling ?	4.22	O	⦿	○
12a	Three way calling (AT+CHLD values 0)	4.22	C.2	⦿	○
12b	Three way calling (AT+CHLD values 1 and 2)	4.22	C.1	⦿	○
12c	Three way calling (AT+CHLD value 3)	4.22	C.2	⦿	○
12d	Three way calling (AT+CHLD value 4)	4.22	C.2	⦿	○
12e	Originate new call with established call in progress	4.22	C.2	⦿	○
13	Calling Line Identification (CLI)	4.23	O	⦿	○
14	Echo cancelling (EC) and Noise reduction (NR)	4.24	O	⦿	○
15	Voice recognition activation/deactivation	4.25	O	⦿	○
16	Attach a phone number to a voice tag	4.26	O	⦿	○
17	Ability to transmit DTMF codes	4.27	O	⦿	○
18a	Remote audio volume control – speaker ?	4.28.1	O	⦿	○
18b	Remote audio volume control – microphone ?	4.28.1	O	⦿	○

18c	Volume Level Synchronization – speaker	4.28.2	C.3	◉	○
18d	Volume Level Synchronization – microphone	4.28.2	C.4	◉	○
18e	HF informs AG about local changes of audio volume	4.28.2	O	◉	○
18f	HF informs AG about local changes of microphone gain	4.28.2	O	◉	○
19	Response and hold	4.29	O	◉	○
20	Subscriber Number Information	4.30	O	◉	○
21a	Enhanced Call Status	4.31	C.2	◉	○
21b	Enhanced Call Control	4.32	C.2	◉	○
22	Support for automatic link loss recovery	4.3	O	○	◉

C.1 Mandatory if (3/12); otherwise Excluded.
C.2 Optional if (3/12); otherwise Excluded.
M.1: Mandatory IF (1/2) Selected
C.3 Mandatory if 3/18a or 3/18b, otherwise Optional.
C.4 Mandatory if 3/18b, otherwise Optional
C.5: Optional if BB:2/3 is supported, otherwise excluded.

Update PICS Information   TOOLS: [Consistency Check]

1.4 Audio Coding Requirements   [top]

Table 4: Requirements towards the Link Control Procedures of the Serial Port Profile (AG and HF)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	
1	CVSD audio coding over SCO	2.3	M	◉	○

Update PICS Information   TOOLS: [Consistency Check]

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