

# Multi-Profile Specification (MPS)

## **Bluetooth® Implementation Conformance Statement (ICS) Proforma**

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- **Prepared By:** Audio, Telephony, and Automotive Working Group



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# 1 Identification of the implementation

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## 1.1 Implementation Under Test (IUT) identification

Identification of the Implementation Under Test (IUT) is to be filled in to provide as much detail as possible regarding version numbers and configuration options.

An ICS contact person to respond to queries regarding information supplied in this ICS proforma is named in the Declaration of Compliance: Summary of Selected Specifications in Implementation.

## 1.2 Profile versions

**Table 0: MPS Profile Version**

Item	Version	Reference	Status
1	MPS v1.0	[1]	M

## 1.3 Profile dependencies

**Table 1: Profile Version Requirements**

Item	Version	Reference	Status
1	A2DP 1.2 or later	[1] 2.3	C.1
2	AVRCP 1.3 or later	[1] 2.3	C.2
3	DUN 1.1 or later	[1] 2.3	C.3
4	HFP 1.5 or later	[1] 2.3	C.4
5	PAN 1.0 or later	[1] 2.3	C.5
6	PBAP 1.1 or later	[1] 2.3	C.6

C.1: Mandatory IF A2DP, otherwise Excluded.

C.2: Mandatory IF AVRCP, otherwise Excluded.

C.3: Mandatory IF DUN, otherwise Excluded.

C.4: Mandatory IF HFP, otherwise Excluded.

C.5: Mandatory IF PAN, otherwise Excluded.

C.6: Mandatory IF PBAP, otherwise Excluded.

**Table 2: Profile Roles**

Item	Feature	Reference	Status
1	A2DP Source (SRC)	[1] 2.2	C.1
2	A2DP Sink (SNK)	[1] 2.2	C.2
3	AVRCP Controller (CT)	[1] 2.2	C.3
4	AVRCP Target (TG)	[1] 2.2	C.4
5	DUN Gateway (GW)	[1] 2.2	C.5
6	DUN Data Terminal (DT)	[1] 2.2	C.6
7	HFP Audio Gateway (AG)	[1] 2.2	C.7
8	HFP Hands-Free (HF)	[1] 2.2	C.8
9	PAN Network Access Point (NAP)	[1] 2.2	C.9
10	PAN Group Ad-hoc Network (GN)	[1] 2.2	C.10
11	PAN User (PANU)	[1] 2.2	C.11
12	PBAP PCE	[1] 2.2	C.12
13	PBAP PSE	[1] 2.2	C.13

C.1: Mandatory IF A2DP 1/1 "A2DP Source" AND MPS 1/1 "A2DP 1.2 or later", otherwise Excluded.

C.2: Mandatory IF A2DP 1/2 "A2DP Sink" AND MPS 1/1 "A2DP 1.2 or later", otherwise Excluded.

C.3: Mandatory IF AVRCP 1/1 "AVRCP Controller" AND MPS 1/2 "AVRCP 1.3 or later", otherwise Excluded.

C.4: Mandatory IF AVRCP 1/2 "AVRCP Target" AND MPS 1/2 "AVRCP 1.3 or later", otherwise Excluded.

C.5: Mandatory IF DUN 1/1 "DUN Gateway" AND MPS 1/3 "DUN 1.1 or later", otherwise Excluded.

C.6: Mandatory IF DUN 1/2 "DUN Terminal" AND MPS 1/3 "DUN 1.1 or later", otherwise Excluded.

- C.7: Mandatory IF HFP 1/1 “HFP Audio Gateway (AG)” AND MPS 1/4 “HFP 1.5 or later”, otherwise Excluded.
- C.8: Mandatory IF HFP 1/2 “HFP Hands-Free (HF)” AND MPS 1/4 “HFP 1.5 or later”, otherwise Excluded.
- C.9: Mandatory IF PAN 1/1 “PAN Network Access point” AND MPS 1/5 “PAN 1.0 or later”, otherwise Excluded.
- C.10: Mandatory IF PAN 1/2 “PAN Group Ad-hoc Network” AND MPS 1/5 “PAN 1.0 or later”, otherwise Excluded.
- C.11: Mandatory IF PAN 1/3 “PAN User” AND MPS 1/5 “PAN 1.0 or later”, otherwise Excluded.
- C.12: Mandatory IF PBAP 1/1 “PBAP PCE” AND MPS 1/6 “PBAP 1.1 or later”, otherwise Excluded.
- C.13: Mandatory IF PBAP 1/2 “PBAP PSE” AND MPS 1/6 “PBAP 1.1 or later”, otherwise Excluded.

**Table 3: Profile Features**

Item	Version	Reference	Status	Inter-Layer Dependency
1	Receiving PASS THROUGH command in category 1 (AVRCP TG)	[1] 6.8.1	C.1	[2] AVRCP 7/7
2	Pause (AVRCP TG)	[1] 6.8.1	C.1	[2] AVRCP 8/21
3	play (AVRCP CT)	[1] 6.8.1	C.2	[2] AVRCP 3/19
4	pause (AVRCP CT)	[1] 6.8.1	C.2	[2] AVRCP 3/21
5	Transfer Control – Suspend (GAVDP Initiator)	[1] 6.4	C.3	[5] GAVDP 2/2
6	Transfer Control – Suspend (GAVDP Acceptor)	[1] 6.4	C.4	[5] GAVDP 3/2
7	Accept an incoming voice call (in-band ring)	[1] 4.1.1, 4.1.2	C.5	[3] HFP 2/4a or HFP 3/4a
8	Accept an incoming voice call (no in-band ring)	[1] 4.1.1, 4.1.2	C.5	[3] HFP 2/4b or HFP 3/4b
9	Place a call with a phone number supplied by the HF (HFP HF)	[1] 4.2.2	C.6	[3] HFP 3/8
10	Register Notification	[1] 6.10	C.7	[2] AVRCP 2/22
10a	Register Notification: PLAYBACK_STATUS_CHANGED	[1] 6.10	C.7	N/A
11	Ability to support parallel data and call operation	[1] 4.2.1.2	O	N/A
12	PBAP Phone Book Download (PBAP PCE)	[1] 4.2.1.2	C.8	[4] PBAP 2/1
13	Ability to support multiple concurrent device connections	[1] 3.1	O	N/A

- C.1: Mandatory IF MPS 2/1 “A2DP Source (SRC)” AND MPS 2/4 “AVRCP Target (TG)”, otherwise not defined.
- C.2: Mandatory IF MPS 2/2 “A2DP Sink (SNK)” AND MPS 2/3 “AVRCP Controller (CT)”, otherwise not defined.
- C.3: Mandatory IF MPS 1/4 “HFP 1.5 or later” AND MPS 2/1 “A2DP Source (SRC)”, otherwise Optional IF MPS 1/4 “HFP 1.5 or later” AND MPS 2/2 “A2DP Sink (SNK)”, otherwise not defined.
- C.4: Mandatory IF MPS 1/4 “HFP 1.5 or later” AND (MPS 2/1 “A2DP Source (SRC)” OR MPS 2/2 “A2DP Sink (SNK)”), otherwise not defined.
- C.5: Mandatory to support at least one of MPS 3/7 “Accept an incoming voice call (in-band ring)” OR MPS 3/8 “Accept an incoming voice call (no in-band ring)” IF MPS 1/4 “HFP 1.5 or later”, otherwise not defined.

- C.6: Optional IF MPS 1/4 “HFP 1.5 or later” AND MPS 2/8 “HFP Hands-Free (HF)”, otherwise not defined.
- C.7: Mandatory IF MPS 2/3 “AVRCP Controller (CT)”, otherwise not defined.
- C.8: Mandatory IF MPS 1/6 “PBAP 1.1 or later” AND MPS 2/12 “PBAP PCE”, otherwise not defined.

## 1.4 Profile requirements

**Table 4: Device Capability Support**

Item	Version	Reference	Status
1	Multiple Profiles Single Device (MPSD)	[1] 2.2	M
2	Multiple Profiles Multiple Devices (MPMD)	[1] 2.2	C.1

- C.1: Mandatory IF MPS 3/13 “Ability to support multiple concurrent device connections”, otherwise Excluded.

**Table 5: N/A**

Item	Version	Reference	Status
1	Item no longer used	N/A	N/A

**Table 6: MPSD Scenarios**

*Prerequisite: MPS 4/1 “Multiple Profiles Single Device (MPSD)”*

Item	Version	Reference	Status
1	HFP-AG and A2DP-SRC Implementation Answer Incoming Call during Audio Streaming	[1] 3, 4.1.1	C.1
2	HFP-HF and A2DP-SNK Implementation Answer Incoming Call during Audio Streaming	[1] 3, 4.1.1	C.2
3	HFP-AG and A2DP-SRC Implementation Outgoing Call during Audio Streaming	[1] 3, 4.1.3	C.1
4	HFP-HF and A2DP-SNK Implementation Outgoing Call during Audio Streaming	[1] 3, 4.1.3	C.2
5	HFP-AG and A2DP-SRC Implementation Reject/Ignore Incoming Call during Audio Streaming	[1] 3, 4.1.5	C.1
6	HFP-HF and A2DP-SNK Implementation Reject/Ignore Incoming Call during Audio Streaming	[1] 3, 4.1.5	C.2
7	HFP-AG and A2DP-SRC Implementation HFP Call Termination during AVP Connection	[1] 3, 4.1.7	C.1
8	HFP-HF and A2DP-SNK Implementation HFP Call Termination during AVP Connection	[1] 3, 4.1.7	C.2
9	HFP-AG and A2DP-SRC Implementation Press Play on Audio Player during Active Call	[1] 3, 4.1.9	C.1
10	HFP-HF and A2DP-SNK Implementation Press Play on Audio Player during Active Call	[1] 3, 4.1.9	C.2
11	HFP-AG and A2DP-SRC Implementation Start Audio Streaming after AVRCP Play Command	[1] 3, 4.1.11	C.1
12	HFP-HF and A2DP-SNK Implementation Start Audio Streaming after AVRCP Play Command	[1] 3, 4.1.11	C.2

Item	Version	Reference	Status
13	HFP-AG and A2DP-SRC Implementation Suspend Audio Streaming after AVRCP Pause/Stop	[1] 3, 4.1.12	C.1
14	HFP-HF and A2DP-SNK Implementation Suspend Audio Streaming after AVRCP Pause/Stop	[1] 3, 4.1.12	C.2
15	HFP-AG and DUN-GW Implementation Data Communication under PSDM (DUN) during Active Voice Call	[1] 3, 4.2.1	C.3
16	HFP-HF and DUN-DT Implementation Data Communication under PSDM (DUN) during Active Voice call	[1] 3, 4.2.1	C.4
17	HFP-AG and DUN-GW Implementation Outgoing Voice Call during Data Communication under PSDM (DUN)	[1] 4.2.2	C.3
18	HFP-HF and DUN-DT Implementation Outgoing Voice Call during Data Communication under PSDM (DUN)	[1] 4.2.2	C.4
19	HFP-AG and DUN-GW Implementation Incoming Voice Call during Data Communication under PSDM (DUN)	[1] 3, 4.2.3	C.3
20	HFP-HF and DUN-DT Implementation Incoming Voice Call during Data Communication under PSDM (DUN)	[1] 3, 4.2.3	C.4
21	A2DP-SRC and DUN-GW Implementation Start Audio Streaming during Data Communication under PSDM (DUN)	[1] 3, 4.2.4	C.5
22	A2DP-SNK and DUN-DT Implementation Start Audio Streaming during Data Communication under PSDM (DUN)	[1] 3, 4.2.4	C.6
23	A2DP-SRC and DUN-GW Implementation Data Communication Establishment under PSDM (DUN) during Audio Streaming	[1] 3, 4.2.6	C.5
24	A2DP-SNK and DUN-DT Implementation Data Communication Establishment under PSDM (DUN) during Audio Streaming	[1] 3, 4.2.6	C.6
25	HFP-AG and DUN-GW Implementation Terminate Voice Call/Data Call during Data Communication and Voice Call	[1] 3, 4.2.8	C.5
26	HFP-HF and DUN-DT Implementation Terminate Voice Call/Data Call during Data Communication and Voice Call	[1] 3, 4.2.8	C.6
27	HFP-AG and PAN-NAP Implementation Data Communication in Personal Area Network during Active Voice Call	[1] 3, 4.3.1	C.7
28	HFP-HF and PAN-PANU Implementation Data Communication in Personal Area Network during Active Voice Call	[1] 3, 4.3.1	C.8



Item	Version	Reference	Status
29	HFP-AG and PAN-NAP Implementation Outgoing Voice Call during Data Communication in Personal Area Network	[1] 3, 4.3.2	C.7
30	HFP-HF and PAN-PANU Implementation Outgoing Voice Call during Data Communication in Personal Area Network	[1] 3, 4.3.2	C.8
31	HFP-AG and PAN-NAP Implementation Incoming Voice Call during Data Communication in Personal Area Network	[1] 3, 4.3.3	C.7
32	HFP-HF and PAN-PANU Implementation Incoming Voice Call during Data Communication in Personal Area Network	[1] 3, 4.3.3	C.8
33	A2DP-SRC and PAN-NAP Implementation Start Audio Streaming during Data Communication in Personal Area Network	[1] 3, 4.3.4	C.9
34	A2DP-SNK and PAN-PANU Implementation Start Audio Streaming during Data Communication in Personal Area Network	[1] 3, 4.3.4	C.10
35	A2DP-SRC and PAN-NAP Implementation Data Communication Establishment in Personal Area Network during Audio Streaming	[1] 3, 4.3.5	C.9
36	A2DP-SNK and PAN_PANU Implementation Data Communication Establishment in Personal Area Network during Audio Streaming	[1] 3, 4.3.5	C.10
37	A2DP-SRC_PBAP-Server Implementation Phonebook Download during Audio Streaming	[1] 3, 4.5.1	C.11
38	A2DP-SNK and PBAP-Client Implementation Phonebook Download during Audio Streaming	[1] 3, 4.5.1	C.12
39	HFP-AG and PBAP-Server Implementation PBAP and HFP Connection Behavior	[1] 4.5.2	C.13

- C.1: Mandatory IF MPS 2/1 “A2DP Source (SRC)” AND MPS 2/4 “AVRCP Target (TG)” AND MPS 2/7 “HFP Audio Gateway (AG)”, otherwise Excluded.
- C.2: Mandatory IF MPS 2/2 “A2DP Sink (SNK)” AND MPS 2/3 “AVRCP Controller (CT)” AND MPS 2/8 “HFP Hands-Free (HF)”, otherwise Excluded.
- C.3: Mandatory IF MPS 2/5 “DUN Gateway (GW)” AND MPS 2/7 “HFP Audio Gateway (AG)” AND MPS 3/11 “Ability to support parallel data and call operation”, otherwise Excluded.
- C.4: Mandatory IF MPS 2/6 “DUN Data Terminal (DT)” AND MPS 2/8 “HFP Hands-Free (HF)”, otherwise Excluded.
- C.5: Mandatory IF MPS 2/1 “A2DP Source (SRC)” AND MPS 2/5 “DUN Gateway (GW)”, otherwise Excluded.
- C.6: Mandatory IF MPS 2/2 “A2DP Sink (SNK)” AND MPS 2/6 “DUN Data Terminal (DT)”, otherwise Excluded.
- C.7: Mandatory IF MPS 2/7 “HFP Audio Gateway (AG)” AND MPS 2/9 “PAN Network Access Point (NAP)” AND MPS 3/11 “Ability to support parallel data and call operation”, otherwise Excluded.
- C.8: Mandatory IF MPS 2/8 “HFP Hands-Free (HF)” AND MPS 2/11 “PAN User (PANU)” AND MPS 3/11 “Ability to support parallel data and call operation”, otherwise Excluded.
- C.9: Mandatory IF MPS 2/1 “A2DP Source (SRC)” AND MPS 2/9 “PAN Network Access Point (NAP)”, otherwise Excluded.
- C.10: Mandatory IF MPS 2/2 “A2DP Sink (SNK)” AND MPS 2/11 “PAN User (PANU)”, otherwise Excluded.
- C.11: Mandatory IF MPS 2/1 “A2DP Source (SRC)” AND MPS 2/13 “PBAP PSE”, otherwise Excluded.

- C.12: Mandatory IF MPS 2/2 “A2DP Sink (SNK)” AND MPS 2/12 “PBAP PCE”, otherwise Excluded.  
 C.13: Mandatory IF MPS 2/7 “HFP Audio Gateway (AG)” AND MPS 2/13 “PBAP PSE”, otherwise Excluded.

**Table 7: MPMD Features**

*Prerequisite: MPS 4/2 “Multiple Profiles Multiple Devices (MPMD)”*

Item	Version	Reference	Status
1	HFP-HF and A2DP-SNK and AVRCP-CT Implementation Answer Incoming Call during Audio Streaming	[1] 3, 4.1.2	C.1
2	A2DP-SRC and AVRCP-TG Implementation Answer Incoming Call during Audio Streaming	[1] 3, 4.1.2	C.2
3	HFP-HF and A2DP-SNK and AVRCP-CT Implementation Outgoing Call during Audio Streaming	[1] 3, 4.1.4	C.1
4	A2DP-SRC and AVRCP-TG Implementation Outgoing Call during Audio Streaming	[1] 3, 4.1.4	C.2
5	HFP-HF and A2DP-SNK and AVRCP-CT Implementation Reject/Ignore Incoming Call during Audio Streaming	[1] 3, 4.1.6	C.1
6	A2DP-SRC and AVRCP-TG Implementation Reject/Ignore Incoming Call during Audio Streaming	[1] 3, 4.1.6	C.2
7	HFP-HF and A2DP-SNK and AVRCP-CT Implementation HFP Call Termination during AVP Connection	[1] 3, 4.1.8	C.1
8	A2DP-SRC and AVRCP-TG Implementation HFP Call Termination during AVP Connection	[1] 3, 4.1.8	C.2
9	HFP-HF and A2DP-SNK and AVRCP-CT Implementation Press Play on Audio Player during Active Call	[1] 3, 4.1.10	C.1
10	A2DP-SRC and AVRCP-TG Implementation Press Play on Audio Player during Active Call	[1] 3, 4.1.10	C.2
11	A2DP-SRC and AVRCP-TG Implementation Start Audio Streaming during Data Communication under PSDM	[1] 3, 4.2.5	C.2
12	A2DP-SNK and AVRCP-CT and DUN-DT Implementation Start Audio Streaming during Data Communication under PSDM	[1] 3, 4.2.5	C.3
13	A2DP-SRC and AVRCP-TG Implementation Start Packet Data Communication during Audio Streaming	[1] 3, 4.2.7	C.2
14	A2DP-SNK and AVRCP-CT and DUN-DT Implementation Start Packet Data Communication during Audio Streaming	[1] 3, 4.2.7	C.3

C.1: Mandatory IF MPS 2/2 “A2DP Sink (SNK)” AND MPS 2/3 “AVRCP Controller (CT)” AND MPS 2/8 “HFP Hands-Free (HF)”, otherwise Excluded.

C.2: Mandatory IF MPS 2/1 “A2DP Source (SRC)” AND MPS 2/4 “AVRCP Target (TG)”, otherwise Excluded.

C.3: Mandatory IF MPS 2/2 “A2DP Sink (SNK)” AND MPS 2/3 “AVRCP Controller (CT)” AND MPS 2/6 “DUN Data Terminal (DT)”, otherwise Excluded.

## 1.5 MPS procedures

**Table 8: MPS Procedures**

Item	Version	Reference	Status
1	AVP Suspension	[1] 5.1	C.1
2	Profile (Dis-)Connection behavior	[1] 5.2	C.2

C.1: Mandatory IF MPS 1/1 “A2DP 1.2 or later” AND MPS 1/2 “AVRCP 1.3 or later”, otherwise Excluded.

C.2: Mandatory IF MPS 2/1 “A2DP Source (SRC)” AND MPS 2/4 “AVRCP Target (TG)” AND MPS 2/7 “HFP Audio Gateway (AG)”, otherwise Excluded.

## 1.6 Core specification dependencies

**Table 9: MPS Dependencies**

Item	Version	Reference	Status
1	Implements Bluetooth Core Specification v2.1 + EDR or later	[1] 1.4	M

## 1.7 MPS requirements

**Table 10: MPS Requirements**

Item	Version	Reference	Status	Inter-Layer Dependency
1	Support for Server role	[1] 6.1	M	[6] SDP 1b/1
2	Media Stream Suspension	[1] 5.1	C.1	N/A
3	Sniff Mode during Streaming	[1] 6.3.1	C.2	N/A

C.1: Mandatory IF MPS 1/1 “A2DP 1.2 or later” AND MPS 1/4 “HFP 1.5 or later”, otherwise Excluded.

C.2: Mandatory IF MPS 1/1 “A2DP 1.2 or later”, otherwise Excluded.

## 2 References

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- [1] Multi-Profile Specification, Version 1.0 or later
- [2] ICS Proforma for Audio/Video Remote Control Profile (AVRCP), AVRCP.ICS
- [3] ICS Proforma for Hands-Free Profile (HFP), HFP.ICS
- [4] ICS Proforma for Phone Book Access Profile (PBAP), PBAP.ICS
- [5] ICS Proforma for Generic Audio/Video Distribution Profile (GAVDP), GAVDP.ICS
- [6] ICS Proforma for Service Discovery Protocol (SDP), SDP.ICS

### 3 Revision history and acknowledgments

#### Revision History

Publication Number	Revision Number	Date	Comments
0	1.0.0	2013-07-02	Prepare for Publication
	1.0.1r00	2014-05-01	TSE 5444: Updated Table 8, C.2.
	1.0.1r01	2014-06-24	BQRB Review, Alicia: Table formatting to not break cells between pages. TE Review: Legal review preparation
1	1.0.1	2014-07-07	TCRL 2014-1 Publication
	1.0.2r00	2015-04-28	TSE 6227: Updated references and conditionals in Tables 1 and 2 for clarity
	1.0.2r01	2015-06-05	Deleted Section 1.2 (Global Statement of Conformance) per current template standards.
2	1.0.2	2015-07-14	Prepared for TCRL 2015-1 publication
	1.0.3r00	2018-04-02	TSE 10556 (rating 1): Template conversion.
3	1.0.3	2018-07-01	Approved by BTI. Prepared for TCRL 2018-1 publication.
	1.0.3ed2r00	2021-07-23	TSE 16938 (rating 1): Updated conditional language throughout the document to align with the latest conventions, and added inter-layer dependency columns as appropriate. Editorials to align with the latest ICS template, including setting the previous v1.0.3 as publication 3.
	1.0.3 edition 2	2021-08-20	Approved by BTI on 2021-08-19. Prepared for edition 2 publication.
	p4r00–r01	2022-02-25 – 2022-03-24	TSE 17883 (rating 3): Updated Table 3 ICS items and conditionals to remove circular references, aligned with the current published ICSs of GAVDP and AVRCP, and updated HFP ILD items that apply to both roles. TSE 18372 (rating 1): Updated “is/not supported” language globally to align with the latest ICS conventions. Template-related editorials, including aligning the copyright page with v2 of the DNMD and updating ILD references per the consistency checker.
4	p4	2022-06-28	Approved by BTI on 2022-05-31. Prepared for TCRL 2022-1 publication.
	p4ed2r00–r01	2022-07-19 – 2022-08-17	TSE 19125 (rating 1): Updated conditionals C.1 and C.2 in Table 1 to reference only the full layer. Editorials, including removing unused references and renumbering cross-references accordingly.
	p4 edition 2	2022-08-23	Approved by BTI on 2022-08-22. Prepared for edition 2 publication.

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