

# Multi-Profile Specification (MPS)

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

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- **Revision:** MPS.ICS.p5
- **Revision Date:** 2026-02-17
- **Prepared By:** Audio, Telephony, and Automotive Working Group
- **Published during TCRL:** TCRL.pkg102



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# 1 General principles

## 1.1 Implementation Under Test (IUT) identification

Using the Bluetooth SIG qualification tool, the implementer is expected to declare details about what will be implemented.

## 1.2 Auto-fill tables

This ICS includes one or more tables that are defined as auto-fill tables. Auto-fill tables are defined to allow for less-complex conditions within other tables. Auto-fill tables are distinguished from regular ICS tables by the addition of “(auto-fill)” after the Table number, prior to the colon “:”.

An auto-fill table is automatically populated based on selected capabilities elsewhere in the ICS. The populated settings in the auto-fill table are not user editable.

## 1.3 Enforcement of inter-layer dependencies

This ICS includes one or more tables with inter-layer dependencies (ILDs). ILDs are used for specification requirements that are dependent on other supporting specifications. ILDs can refer to an individual ICS item in a separate layer (individual ILD), or it can refer to the full layer (full-layer ILD).

ILDs residing in an X2Core layer will be enforced from the Bluetooth SIG qualification tool in the following conditions, depending on where the referred ILD is residing:

Referred ILD resides in	Individual ILD	Full-layer ILD
Controller layer	Core-Complete configuration, or Referred layer is supported	N/A
Lower HCI layer	HCI is supported	N/A
Upper HCI layer	Core-Host configuration, or UHCI is supported	N/A
Host layer	Core-Host configuration, or Core-Complete configuration, or Referred layer is supported	N/A
X2Core layer	Core-Host configuration, or Core-Complete configuration, or Referred layer is supported	Core-Host configuration, or Core-Complete configuration

Table 1.1: Enforcement of an ILD within the Bluetooth SIG qualification tool

## 2 ICS declarations

### 2.1 Versions

Table 0: X.Y Versions

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

### 2.2 Profile dependencies

Table 1 (auto-fill): 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: (Reverse ILD) Mandatory IF A2DP, otherwise Excluded.  
 C.2: (Reverse ILD) Mandatory IF AVRCP, otherwise Excluded.  
 C.3: (Reverse ILD) Mandatory IF DUN, otherwise Excluded.  
 C.4: (Reverse ILD) Mandatory IF HFP, otherwise Excluded.  
 C.5: (Reverse ILD) Mandatory IF PAN, otherwise Excluded.  
 C.6: (Reverse ILD) Mandatory IF PBAP, otherwise Excluded.

Table 2 (auto-fill): 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: (Reverse ILD) Mandatory IF A2DP 1/1 "A2DP Source", otherwise Excluded.



- C.2: (Reverse ILD) Mandatory IF A2DP 1/2 “A2DP Sink”, otherwise Excluded.
- C.3: (Reverse ILD) Mandatory IF AVRCP 1/1 “AVRCP Controller”, otherwise Excluded.
- C.4: (Reverse ILD) Mandatory IF AVRCP 1/2 “AVRCP Target”, otherwise Excluded.
- C.5: (Reverse ILD) Mandatory IF DUN 1/1 “DUN Gateway”, otherwise Excluded.
- C.6: (Reverse ILD) Mandatory IF DUN 1/2 “DUN Data Terminal”, otherwise Excluded.
- C.7: (Reverse ILD) Mandatory IF HFP 1/1 “HFP Audio Gateway (AG)”, otherwise Excluded.
- C.8: (Reverse ILD) Mandatory IF HFP 1/2 “HFP Hands-Free (HF)”, otherwise Excluded.
- C.9: (Reverse ILD) Mandatory IF PAN 1/1 “PAN Network Access Point”, otherwise Excluded.
- C.10: (Reverse ILD) Mandatory IF PAN 1/2 “PAN Group Ad-hoc Network”, otherwise Excluded.
- C.11: (Reverse ILD) Mandatory IF PAN 1/3 “PAN User”, otherwise Excluded.
- C.12: (Reverse ILD) Mandatory IF PBAP 1/1 “PBAP PCE”, otherwise Excluded.
- C.13: (Reverse ILD) Mandatory IF PBAP 1/2 “PBAP PSE”, 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 the 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 IF MPS 1/4 “HFP 1.5 or later”, otherwise not defined.
- C.6: Optional IF 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 2/12 “PBAP PCE”, otherwise not defined.

## 2.3 Profile requirements

**Table 4 (auto-fill): 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: No longer used**

**Table 6 (auto-fill): 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

Item	Version	Reference	Status
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
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

Item	Version	Reference	Status
28	HFP-HF and PAN-PANU Implementation Data Communication in Personal Area Network during Active Voice Call	[1] 3, 4.3.1	C.8
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 (auto-fill): 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.

## 2.4 MPS procedures

**Table 8 (auto-fill): 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.

**Table 9: No longer used**

## 2.5 MPS requirements

**Table 10 (auto-fill): MPS Requirements**

Item	Version	Reference	Status	Inter-Layer Dependency
1	SDP Server	[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.

## 3 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

## 4 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.

Publication Number	Revision Number	Date	Comments
	p5r00-r01	2025-12-27 – 2025-12-31	TSE 28127 (rating 2): Updated conditions for Tables 1 and 2 to reference reverse ILD items rather than referencing Profiles. Converted Tables 1, 2, 4, 6–8, and 10 to auto-fill tables. Removed unnecessary ICS items from conditions 3:C.6 and 3:C.8. Marked Tables 5 and 9 as no longer used. Incorporated editorials to align the document with the current ICS template.
5	p5	2026-02-17	Approved by BTI on 2026-01-22. Prepared for TCRL pkg102 publication.

### ***Acknowledgments***

Name	Company
Olivia Bellamou-Huet	Berner & Mattner Systemtechnik GmbH
Dominik Sollfrank	Berner & Mattner Systemtechnik GmbH
Jason Nydegger	Bluetooth SIG, Inc.
Alicia Courtney	Broadcom
Chris Church	CSR
Magnus Sommansson	CSR