

Voice Assistant Profile (VAP)

Bluetooth® Implementation Conformance Statement (ICS) Proforma

- **Revision:** VAP.ICS.p0
- **Revision Date:** 2025-12-16
- **Prepared By:** Audio, Telephony, and Automotive Working Group
- **Published during TCRL:** pkg101-addition



This document, regardless of its title or content, is not a Bluetooth Specification as defined in the Bluetooth Patent/Copyright License Agreement (“PCLA”) and Bluetooth Trademark License Agreement. Use of this document by members of Bluetooth SIG is governed by the membership and other related agreements between Bluetooth SIG Inc. (“Bluetooth SIG”) and its members, including the PCLA and other agreements posted on Bluetooth SIG’s website located at www.bluetooth.com.

THIS DOCUMENT IS PROVIDED “AS IS” AND BLUETOOTH SIG, ITS MEMBERS, AND THEIR AFFILIATES MAKE NO REPRESENTATIONS OR WARRANTIES AND DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY, TITLE, NON-INFRINGEMENT, FITNESS FOR ANY PARTICULAR PURPOSE, THAT THE CONTENT OF THIS DOCUMENT IS FREE OF ERRORS.

TO THE EXTENT NOT PROHIBITED BY LAW, BLUETOOTH SIG, ITS MEMBERS, AND THEIR AFFILIATES DISCLAIM ALL LIABILITY ARISING OUT OF OR RELATING TO USE OF THIS DOCUMENT AND ANY INFORMATION CONTAINED IN THIS DOCUMENT, INCLUDING LOST REVENUE, PROFITS, DATA OR PROGRAMS, OR BUSINESS INTERRUPTION, OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY, AND EVEN IF BLUETOOTH SIG, ITS MEMBERS, OR THEIR AFFILIATES HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

This document is proprietary to Bluetooth SIG. This document may contain or cover subject matter that is intellectual property of Bluetooth SIG and its members. The furnishing of this document does not grant any license to any intellectual property of Bluetooth SIG or its members.

This document is subject to change without notice.

Copyright © 2025 by Bluetooth SIG, Inc. The Bluetooth word mark and logos are owned by Bluetooth SIG, Inc. Other third-party brands and names are the property of their respective owners.



Contents

- 1 General principles 4**
 - 1.1 Implementation Under Test (IUT) identification 4
 - 1.2 Enforcement of inter-layer dependencies 4
- 2 ICS declarations..... 5**
 - 2.1 Versions 5
 - 2.2 Transports 5
 - 2.3 Roles 5
 - 2.4 Voice Assistant Gateway role 6
 - 2.4.1 Service references (Voice Assistant Gateway) 6
 - 2.4.2 Voice Assistant Service (Voice Assistant Gateway)..... 6
 - 2.4.3 GAP requirements (Voice Assistant Gateway) 6
 - 2.4.4 LL requirements (Voice Assistant Gateway) 7
 - 2.5 Voice Assistant Terminal role 8
 - 2.5.1 Service references (Voice Assistant Terminal) 8
 - 2.5.2 Generic Voice Assistant Service (Voice Assistant Terminal) 8
 - 2.5.3 Voice Assistant Service (Voice Assistant Terminal) 9
 - 2.5.4 GAP requirements (Voice Assistant Terminal) 10
 - 2.5.5 GATT requirements (Voice Assistant Terminal) 11
 - 2.5.6 LL requirements (Voice Assistant Terminal) 12
- 3 References 13**
- 4 Revision history and acknowledgments 14**



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 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 (Voice Assistant Gateway)

Prerequisite: VAP 3/1 “Voice Assistant Gateway”

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

Table 0a: X.Y.Z Versions (Voice Assistant Gateway)

Table number reserved but not yet in use.

Table 1: X.Y Versions (Voice Assistant Terminal)

Prerequisite: VAP 3/2 “Voice Assistant Terminal”

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

Table 1a: X.Y.Z Versions (Voice Assistant Terminal)

Table number reserved but not yet in use.

2.2 Transports

Table 2: Transport Requirements

Item	Transport	Reference	Status
1	Profile supported over BR/EDR	[1] 2.6	C.1
2	Profile supported over LE	[1] 2.6	C.2, C.3

C.1: Excluded for this Profile.

C.2: Excluded for this Profile IF CORE 41/1 “BR/EDR Core Configuration” OR CORE 40/1 “Core-Controller”.

C.3: Mandatory for this Profile.

2.3 Roles

Table 3: Role Requirements

Item	Role	Reference	Status
1	Voice Assistant Gateway	[1] 2.1	C.1
2	Voice Assistant Terminal	[1] 2.1	C.1

C.1: Mandatory to support at least one.



2.4 Voice Assistant Gateway role

2.4.1 Service references (Voice Assistant Gateway)

Table 4: Services Included in Voice Assistant Gateway

Prerequisite: VAP 3/1 “Voice Assistant Gateway”

Item	Service	Reference	Status	Inter-Layer Dependency
1	Generic Voice Assistant Service	[1] 3	M	[4] VAS 0/1
2	Voice Assistant Service	[1] 3	O	[4] VAS 0/2

2.4.2 Voice Assistant Service (Voice Assistant Gateway)

Table 5: Main Features of Voice Assistant Service

Prerequisite: VAP 3/1 “Voice Assistant Gateway”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Voice Assistant Session Flag characteristic	[1] 3	O	[4] VAS 3/10
2	Voice Assistant Session Flag characteristic	[1] 3	C.1	[4] VAS 12/10

C.1: Optional IF VAP 4/2 “Voice Assistant Service”, otherwise not defined.

2.4.3 GAP requirements (Voice Assistant Gateway)

Table 6: GAP Requirements (Voice Assistant Gateway)

Prerequisite: VAP 3/1 “Voice Assistant Gateway”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Peripheral	[1] 5	C.1	[2] GAP 5/3 OR GAP 18/1
2	LE security mode 1 level 4	[1] 6.1.1	C.3	[2] GAP 25/9
3	Authenticated Pairing (LE security mode 1 level 3) with LE Secure Connections Pairing only	[1] 6.1.2	C.3	[2] GAP 25/12
4	Minimum 128-bit entropy key, LE security mode 1 level 3	[1] 6.1.2	C.4	[2] GAP 25/13b
5	Unauthenticated Pairing (LE security mode 1 level 2) with LE Secure Connections Pairing only	[1] 6.1.2	C.3	[2] GAP 25/11
6	Minimum 128-bit entropy key, LE security mode 1 level 2	[1] 6.1.2	C.5	[2] GAP 25/13c
7	Privacy feature	[1] 6.1.3	C.2	[2] GAP 26/1
8	Central	[1] 5	C.1	[2] GAP 5/4 OR GAP 28/1
9	LE security mode 1 level 4	[1] 6.1.1	C.7	[2] GAP 35/9



Item	Capability	Reference	Status	Inter-Layer Dependency
10	Authenticated Pairing (LE security mode 1 level 3) with LE Secure Connections Pairing only	[1] 6.1.2	C.7	[2] GAP 35/12
11	Minimum 128-bit entropy key, LE security mode 1 level 3	[1] 6.1.2	C.8	[2] GAP 35/13b
12	Unauthenticated Pairing (LE security mode 1 level 2) with LE Secure Connections Pairing only	[1] 6.1.2	C.7	[2] GAP 35/11
13	Minimum 128-bit entropy key, LE security mode 1 level 2	[1] 6.1.2	C.9	[2] GAP 35/13c
14	Privacy feature	[1] 6.1.3	C.6	[2] GAP 36/1

C.1: Mandatory to support at least one.

C.2: Mandatory IF VAP 6/1 “Peripheral”, otherwise not defined.

C.3: Mandatory to support at least one.

C.4: Mandatory IF VAP 6/3 “Authenticated Pairing (LE security mode 1 level 3) with LE Secure Connections Pairing only”, otherwise not defined.

C.5: Mandatory IF VAP 6/5 “Unauthenticated Pairing (LE security mode 1 level 2) with LE Secure Connections Pairing only”, otherwise not defined.

C.6: Mandatory IF VAP 6/8 “Central”, otherwise not defined.

C.7: Mandatory to support at least one.

C.8: Mandatory IF VAP 6/10 “Authenticated Pairing (LE security mode 1 level 3) with LE Secure Connections Pairing only”, otherwise not defined.

C.9: Mandatory IF VAP 6/12 “Unauthenticated Pairing (LE security mode 1 level 2) with LE Secure Connections Pairing only”, otherwise not defined.

2.4.4 LL requirements (Voice Assistant Gateway)

Table 7: LL Requirements (Voice Assistant Gateway)

Prerequisite: VAP 3/1 “Voice Assistant Gateway”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	LE Encryption	[1] 2.5.1	M	[5] LL 9/1
2	LL Privacy	[1] 2.5.1	M	[5] LL 9/13
3	LE Extended Advertising	[1] 2.5.1	M	[5] LL 9/41

2.5 Voice Assistant Terminal role

2.5.1 Service references (Voice Assistant Terminal)

Table 8: Services Included in Voice Assistant Terminal

Prerequisite: VAP 3/2 “Voice Assistant Terminal”

Item	Capability	Reference	Status
1	Discover Generic Voice Assistant Service	[1] 4.1	M
2	Discover Voice Assistant Service	[1] 4.1	O

2.5.2 Generic Voice Assistant Service (Voice Assistant Terminal)

Table 9: Discover Generic Voice Assistant Service Characteristics

Prerequisite: VAP 8/1 “Discover Generic Voice Assistant Service”

Item	Capability	Reference	Status
1	Discover Voice Assistant Name characteristic	[1] 4.1.1	O
2	Read Voice Assistant Name characteristic	[1] 4.1.1	C.1
3	Receive Voice Assistant Name characteristic notifications	[1] 4.1.1	C.1
4	Discover Voice Assistant UUID characteristic	[1] 4.1.1	O
5	Read Voice Assistant UUID characteristic	[1] 4.1.1	C.2
6	Receive Voice Assistant UUID characteristic notifications	[1] 4.1.1	C.2
7	Discover VAS Control Point characteristic	[1] 4.1.1	M
8	Write Without Response VAS Control Point characteristic	[1] 4.1.1	M
9	Receive VAS Control Point characteristic notifications	[1] 4.1.1, 4.2	M
10	Discover Installed Location characteristic	[1] 4.1.1	O
11	Read Installed Location characteristic	[1] 4.1.1	C.3
12	Receive Installed Location characteristic notifications	[1] 4.1.1	C.3
13	Discover Content Control ID (CCID) characteristic	[1] 4.1.1	O
14	Read Content Control ID (CCID) characteristic	[1] 4.1.1	C.4
15	Receive Content Control ID (CCID) characteristic notifications	[1] 4.1.1	C.4
16	Discover Voice Assistant Session State characteristic	[1] 4.1.1	M
17	Read Voice Assistant Session State characteristic	[1] 4.1.1	M
18	Receive Voice Assistant Session State characteristic notifications	[1] 4.1.1, 4.2	M
19	Discover Voice Assistant Session Flag characteristic	[1] 4.1.1	O
20	Read Voice Assistant Session Flag characteristic	[1] 4.1.1	C.5
21	Receive Voice Assistant Session Flag characteristic notifications	[1] 4.1.1	C.5
22	Discover Voice Assistant Supported Languages characteristic	[1] 4.1.1	O
23	Read Voice Assistant Supported Languages characteristic	[1] 4.1.1	C.6
24	Receive Voice Assistant Supported Languages characteristic notifications	[1] 4.1.1	C.6
25	Discover Voice Assistant Supported Features characteristic	[1] 4.1.1	O



Item	Capability	Reference	Status
26	Read Voice Assistant Supported Features characteristic	[1] 4.1.1	C.7
27	Receive Voice Assistant Supported Features characteristic notifications	[1] 4.1.1	C.7

- C.1: Optional IF VAP 9/1 “Discover Voice Assistant Name characteristic”, otherwise Excluded.
 C.2: Optional IF VAP 9/4 “Discover Voice Assistant UUID characteristic”, otherwise Excluded.
 C.3: Optional IF VAP 9/10 “Discover Installed Location characteristic”, otherwise Excluded.
 C.4: Optional IF VAP 9/13 “Discover Content Control ID (CCID) characteristic”, otherwise Excluded.
 C.5: Optional IF VAP 9/19 “Discover Voice Assistant Session Flag characteristic”, otherwise Excluded.
 C.6: Optional IF VAP 9/22 “Discover Voice Assistant Supported Languages characteristic”, otherwise Excluded.
 C.7: Optional IF VAP 9/25 “Discover Voice Assistant Supported Features characteristic”, otherwise Excluded.

2.5.3 Voice Assistant Service (Voice Assistant Terminal)

Table 10: Discover Voice Assistant Service Characteristics

Prerequisite: VAP 8/2 “Discover Voice Assistant Service”

Item	Capability	Reference	Status
1	Discover Voice Assistant Name characteristic	[1] 4.1.1	O
2	Read Voice Assistant Name characteristic	[1] 4.1.1	C.1
3	Receive Voice Assistant Name characteristic notifications	[1] 4.1.1	C.1
4	Discover Voice Assistant UUID characteristic	[1] 4.1.1	O
5	Read Voice Assistant UUID characteristic	[1] 4.1.1	C.2
6	Receive Voice Assistant UUID characteristic notifications	[1] 4.1.1	C.2
7	Discover VAS Control Point characteristic	[1] 4.1.1	M
8	Write Without Response VAS Control Point characteristic	[1] 4.1.1	M
9	Receive VAS Control Point characteristic notifications	[1] 4.1.1, 4.2	M
10	Discover Installed Location characteristic	[1] 4.1.1	O
11	Read Installed Location characteristic	[1] 4.1.1	C.3
12	Receive Installed Location characteristic notifications	[1] 4.1.1	C.3
13	Discover Content Control ID (CCID) characteristic	[1] 4.1.1	O
14	Read Content Control ID (CCID) characteristic	[1] 4.1.1	C.4
15	Receive Content Control ID (CCID) characteristic notifications	[1] 4.1.1	C.4
16	Discover Voice Assistant Session State characteristic	[1] 4.1.1	M
17	Read Voice Assistant Session State characteristic	[1] 4.1.1	M
18	Receive Voice Assistant Session State characteristic notifications	[1] 4.1.1, 4.2	M
19	Discover Voice Assistant Session Flag characteristic	[1] 4.1.1	O
20	Read Voice Assistant Session Flag characteristic	[1] 4.1.1	C.5
21	Receive Voice Assistant Session Flag characteristic notifications	[1] 4.1.1	C.5
22	Discover Voice Assistant Supported Languages characteristic	[1] 4.1.1	O
23	Read Voice Assistant Supported Languages characteristic	[1] 4.1.1	C.6



Item	Capability	Reference	Status
24	Receive Voice Assistant Supported Languages characteristic notifications	[1] 4.1.1	C.6
25	Discover Voice Assistant Supported Features characteristic	[1] 4.1.1	O
26	Read Voice Assistant Supported Features characteristic	[1] 4.1.1	C.7
27	Receive Voice Assistant Supported Features characteristic notifications	[1] 4.1.1	C.7

- C.1: Optional IF VAP 10/1 “Discover Voice Assistant Name characteristic”, otherwise Excluded.
- C.2: Optional IF VAP 10/4 “Discover Voice Assistant UUID characteristic”, otherwise Excluded.
- C.3: Optional IF VAP 10/10 “Discover Installed Location characteristic”, otherwise Excluded.
- C.4: Optional IF VAP 10/13 “Discover Content Control ID (CCID) characteristic”, otherwise Excluded.
- C.5: Optional IF VAP 10/19 “Discover Voice Assistant Session Flag characteristic”, otherwise Excluded.
- C.6: Optional IF VAP 10/22 “Discover Voice Assistant Supported Languages characteristic”, otherwise Excluded.
- C.7: Optional IF VAP 10/25 “Discover Voice Assistant Supported Features characteristic”, otherwise Excluded.

2.5.4 GAP requirements (Voice Assistant Terminal)

Table 11: GAP Requirements (Voice Assistant Terminal)

Prerequisite: VAP 3/2 “Voice Assistant Terminal”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Peripheral	[1] 5	C.1	[2] GAP 5/3 OR GAP 18/1
2	LE security mode 1 level 4	[1] 6.1.1	C.3	[2] GAP 25/9
3	Authenticated Pairing (LE security mode 1 level 3) with LE Secure Connections Pairing only	[1] 6.1.2	C.3	[2] GAP 25/12
4	Minimum 128-bit entropy key, LE security mode 1 level 3	[1] 6.1.2	C.4	[2] GAP 25/13b
5	Unauthenticated Pairing (LE security mode 1 level 2) with LE Secure Connections Pairing only	[1] 6.1.2	C.3	[2] GAP 25/11
6	Minimum 128-bit entropy key, LE security mode 1 level 2	[1] 6.1.2	C.5	[2] GAP 25/13c
7	Privacy feature	[1] 6.1.3	C.2	[2] GAP 26/1
8	Central	[1] 5	C.1	[2] GAP 5/4 OR GAP 28/1
9	LE security mode 1 level 4	[1] 6.1.1	C.7	[2] GAP 35/9
10	Authenticated Pairing (LE security mode 1 level 3) with LE Secure Connections Pairing only	[1] 6.1.2	C.7	[2] GAP 35/12
11	Minimum 128-bit entropy key, LE security mode 1 level 3	[1] 6.1.2	C.8	[2] GAP 35/13b
12	Unauthenticated Pairing (LE security mode 1 level 2) with LE Secure Connections Pairing only	[1] 6.1.2	C.7	[2] GAP 35/11



Item	Capability	Reference	Status	Inter-Layer Dependency
13	Minimum 128-bit entropy key, LE security mode 1 level 2	[1] 6.1.2	C.9	[2] GAP 35/13c
14	Privacy feature	[1] 6.1.3	C.6	[2] GAP 36/1

- C.1: Mandatory to support at least one.
- C.2: Mandatory IF VAP 11/1 “Peripheral”, otherwise not defined.
- C.3: Mandatory to support at least one.
- C.4: Mandatory IF VAP 11/3 “Authenticated Pairing (LE security mode 1 level 3) with LE Secure Connections Pairing only”, otherwise not defined.
- C.5: Mandatory IF VAP 11/5 “Unauthenticated Pairing (LE security mode 1 level 2) with LE Secure Connections Pairing only”, otherwise not defined.
- C.6: Mandatory IF VAP 11/8 “Central”, otherwise not defined.
- C.7: Mandatory to support at least one.
- C.8: Mandatory IF VAP 11/10 “Authenticated Pairing (LE security mode 1 level 3) with LE Secure Connections Pairing only”, otherwise not defined.
- C.9: Mandatory IF VAP 11/12 “Unauthenticated Pairing (LE security mode 1 level 2) with LE Secure Connections Pairing only”, otherwise not defined.

2.5.5 GATT requirements (Voice Assistant Terminal)

Table 12: GATT Requirements

Prerequisite: VAP 3/2 “Voice Assistant Terminal”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	GATT Client over LE	[1] 2.2, 4.1	M	[3] GATT 1a/1
2	Discover All Primary Services	[1] 4.1	C.1	[3] GATT 3/2
3	Discover Primary Service by Service UUID	[1] 4.1	C.1	[3] GATT 3/3
4	Discover All Characteristics of a Service	[1] 4.1	C.2	[3] GATT 3/5
5	Discover Characteristics by UUID	[1] 4.1	C.2	[3] GATT 3/6
6	Discover All Characteristic Descriptors	[1] 4.1	M	[3] GATT 3/7
7	Single Notification	[1] 4.1	M	[3] GATT 3/17
8	Read Characteristic Value	[1] 4.1	M	[3] GATT 3/8
9	Read Long Characteristic Value	[1] 4.1	M	[3] GATT 3/10
10	Write Without Response	[1] 4.1	M	[3] GATT 3/12
11	Read Characteristic Descriptor	[1] 4.1	M	[3] GATT 3/19
12	Write Characteristic Descriptor	[1] 4.1	M	[3] GATT 3/21

- C.1: Mandatory to support at least one.
- C.2: Mandatory to support at least one.

2.5.6 LL requirements (Voice Assistant Terminal)

Table 13: LL Requirements (Voice Assistant Terminal)

Prerequisite: VAP 3/2 "Voice Assistant Terminal"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	LE Encryption	[1] 2.5.1	M	[5] LL 9/1
2	LL Privacy	[1] 2.5.1	M	[5] LL 9/13
3	LE Extended Advertising	[1] 2.5.1	M	[5] LL 9/41

3 References

- [1] Voice Assistant Profile Specification, Version 1.0
- [2] ICS Proforma for Generic Access Profile (GAP)
- [3] ICS Proforma for Generic Attribute Profile (GATT)
- [4] ICS Proforma for Voice Assistant Service (VAS)
- [5] ICS Proforma for Link Layer (LL)

4 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	p0	2025-12-16	Approved by BTI on 2025-11-24. VAP v1.0 adopted by the BoD on 2025-12-15. Prepared for initial publication.

Acknowledgments

Name	Company
Dejan Berec	Bluetooth SIG, Inc.