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

Contents

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.