

# Audio Stream Control Service (ASCS)

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

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**Contents**

<b>1</b>	<b>Identification of the implementation.....</b>	<b>4</b>
1.1	Implementation Under Test (IUT) identification .....	4
1.2	Versions .....	5
1.3	Transports .....	5
1.4	Features .....	5
1.4.1	Audio Stream Control Service.....	5
1.4.2	ASE Operations .....	6
1.5	GATT Requirements .....	6
1.6	SDP Requirements .....	7
<b>2</b>	<b>References.....</b>	<b>8</b>
<b>3</b>	<b>Revision history and acknowledgments .....</b>	<b>9</b>

# 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 Versions

**Table 0: X.Y Versions**

Item	Version	Reference	Status
1	Audio Stream Control Service 1.0	[1] 2	M

**Table 1: X.Y.Z Versions**

Table number reserved but not yet in use

## 1.3 Transports

**Table 2: Transport Requirements**

Item	Transport	Reference	Status
1	Service supported over BR/EDR	[1] 1.5	C.1
2	Service supported over LE	[1] 1.5	C.1

C.1: Mandatory to support at least one.

## 1.4 Features

### 1.4.1 Audio Stream Control Service

**Table 3: Included Services**

Item	Requirement	Reference	Status	Inter-Layer Dependency
1	Published Audio Capabilities Service	[1] 1.2	M	[4] PACS

**Table 4: Features**

Item	Requirement	Reference	Status
1	Support Multiple ASEs	[1] 4	O

**Table 5: Included Characteristics**

Item	Requirement	Reference	Status
1	Sink ASE characteristic	[1] 4.1	C.1
2	Source ASE characteristic	[1] 4.1	C.1
3	ASE Control Point characteristic	[1] 4.2	M

C.1: Mandatory to support at least one.

## 1.4.2 ASE Operations

**Table 6: ASE Control Operations**

Item	Operation	Reference	Status
1	Config Codec	[1] 5.1	M
2	Config QoS	[1] 5.2	M
3	Enable	[1] 5.3	M
4	Receiver Start Ready	[1] 5.4	M
5	Disable	[1] 5.5	M
6	Receiver Stop Ready	[1] 5.6	C.1
7	Update Metadata	[1] 5.7	M
8	Release	[1] 5.8	M
9	Released	[1] 5.9	M

C.1: Mandatory IF ASCS 5/2 “Source ASE characteristic”, otherwise Excluded.

**Table 7: Server-Initiated ASE Control Operations**

Item	Capability	Reference	Status
1	Autonomous Config Codec	[1] 5.1	O
2	Autonomous Receiver Start Ready	[1] 5.4	M
3	Autonomous Disable	[1] 5.5	O
4	Autonomous Update Metadata	[1] 5.7	O
5	Autonomous Release	[1] 5.8	O

**Table 8: ASE State Transitions**

Item	Capability	Reference	Status
1	Released transition to Codec Configured state	[1] 5.9	C.1
2	Released transition to Idle state	[1] 5.9	C.1

C.1: Mandatory to support at least one.

## 1.5 GATT Requirements

**Table 9: GATT Requirements**

Item	Feature	Reference	Status	Inter-Layer Dependency
1	Write without Response	[1] 1.4	M	[3] GATT 4/12
2	Write Characteristic Value	[1] 1.4	M	[3] GATT 4/14
3	Write Long Characteristic Values	[1] 1.4	M	[3] GATT 4/15
4	Notifications	[1] 1.4	M	[3] GATT 4/17
5	Read Characteristic Descriptors	[1] 1.4	M	[3] GATT 4/19
6	Write Characteristic Descriptors	[1] 1.4	M	[3] GATT 4/21

Item	Feature	Reference	Status	Inter-Layer Dependency
7	Enhanced ATT bearer (BR/EDR or LE)	[1] 1.4	O	[3] GATT 2/3a or GATT 2/3b

## 1.6 SDP Requirements

**Table 10: SDP Requirements**

*Prerequisite: ASCS 2/1 “Service supported over BR/EDR”*

Item	Feature	Reference	Status	Inter-Layer Dependency
1	Server	[1] 6	M	[2] SDP 1b/1
2	ServiceClassIDList	[1] 6	M	[2] SDP 9/19
3	ProtocolDescriptorList	[1] 6	M	[2] SDP 9/2
4	AdditionalProtocolDescriptorList	[1] 6	C.1	[2] SDP 9/17
5	BrowseGroupList	[1] 6	M	[2] SDP 9/5

C.1: Mandatory IF ASCS 9/7 “Enhanced ATT bearer (BR/EDR or LE)”, otherwise not defined.

## 2 References

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- [1] Audio Stream Control Service Specification (ASCS), Version 1.0
- [2] ICS Proforma for Service Discovery Protocol (SDP)
- [3] ICS Proforma for Generic Attribute Profile (GATT)
- [4] ICS Proforma for Published Audio Capabilities Service (PACS)



### 3 Revision history and acknowledgments

#### Revision History

Publication Number	Revision Number	Date	Comments
0	p0	2021-09-21	Approved by BTI on 2021-08-19. Audio Stream Control Service (ASCS) v1.0 adopted by the BoD on 2021-09-14. Prepared for initial publication.
	p0ed2r00–r01	2022-04-04 – 2022-04-21	TSE 18376 (rating 1): Updated “is/are/not supported” language in conditionals globally to align with the latest ICS conventions. Template-related and consistency checker editorials.
	p0 edition 2	2022-04-25	Approved by BTI on 2022-04-25. Prepared for edition 2 publication.
	p0ed3r00	2023-02-13	TSE 22639 (rating 1): In Table 9, replaced GATT 2/3 with “GATT 2/3a or GATT 2/3b”. Editorials to align the document with the latest ICS template.
	p0 edition 3	2023-03-13	Approved by BTI on 2023-03-13. Prepared for edition 3 publication.

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