Audio/Video

Bluetooth® Document

Revision Date: 2021-05-14

Audio/Video

A/V Distribution Protocol (AVDTP)

Media Type

3	2	1	0	Description
0	0	0	0	Audio
0	0	0	1	Video
0	0	1	0	Multimedia
X	X	X	X	All other values reserved

A/V Content Protection Method

Mnemonic	Identifier (16 bits)	Content Security (reference)	Usage in Bluetooth® (reference)
DTCP	0x0001	See Note #1	Refer to section 8.19.6 of the Bluetooth A/V Distribution Transport Protocol Specification "Content Protection Capabilities"
SCMS-T	0x0002	See Note #2	See Note #3

Note #1: Please see www.dtcp.com for details of how Digital Transmission Content Protection (DTCP) is mapped to the Bluetooth AV transport services and for information about DTCP licensing by the Digital Transmission Licensing Administrator (DTLA).

Note #2: SCMS-T uses Cp-bit and L-bit that are defined by IEC60958-3:1999 and IEC61119-6:1992. For definition of L-bit, normal logic, instead of reverse situation defined in section 4.3.1 of IEC60958-3, shall be applied.

Note #3: The Contents Protection Header (CP Header) defined by A2DP is used for transmitting these two bits (Cp-bit and L-bit). CP Header has a one-byte length. The bit0 field of CP Headers is used for the L-bit and the bit 1 field of CP Header is used for the Cp-bit. Other bits (from bit2 to bit7) are defined as the RFA field.

General note: Before assigning an identifier the following requirements must be fulfilled:
- The Content Protection method should come with a valid reference to either the relevant controlling entity or a description of the method.
- The Content Protection method should indicate how the identifier is to be used in the context of Bluetooth A/V.

A/V Remote Control Profile (AVRCP)

Major Player Type

Value	Parameter Description
Bit 0 (0x01)	Audio
Bit 1 (0x02)	Video
Bit 2 (0x04)	Broadcasting Audio
Bit 3 (0x08)	Broadcasting Video
Bit 4-7	Reserved

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Player Sub Type

Value	Parameter Description
Bit 0 (0x00000001)	Audio Book
Bit 1 (0x00000002)	Podcast
Bit 2-31	Reserved

Folder Type

Value	Parameter Description
0x00	Mixed
0x01	Titles
0x02	Albums
0x03	Artists
0x04	Genres
0x05	Playlists
0x06	Years
0x07-0xFF	Reserved

Media Type

Value	Parameter Description
0x00	Audio
0x01	Video
0x02-0xFF	Reserved

List of Media Attributes

Attribute ID	Description	Allowed Values	Mandatory/ Optional
0x0	Illegal, should not be used	–	–
0x1	Title of the media	Any text encoded in specified character set	M
0x2	Name of the artist	Any text encoded in specified character set	O
0x3	Name of the album	Any text encoded in specified character set	O
0x4	Number of the media (e.g., track number in a CD)	Numeric ASCII text with zero suppresses	O
0x5	Total number of the media (e.g., total number of tracks in a CD)	Numeric ASCII text with zero suppresses	O
0x6	Genre	Any text encoded in specified character set	O
0x7	Playing time, in milliseconds	Numeric ASCII text with zero suppresses (ex. 2min30sec = 150000)	O
0x8- 0xFFFFFFFF	Reserved for future use	–	–

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Player Application Settings

Player Application Setting Attribute	Attribute Description	Defined Values		Mandatory/ Optional
0x00	Illegal — Should not be used	None		O
0x1	Equalizer ON/OFF Status	**PlayerApplicationSettingValueID**		O
		ValueID	**Description**	
		0x01	OFF	
		0x02	ON	
		0x03-0xFF	Reserved for future use	
0x2	Repeat Mode Status	**PlayerApplicationSettingValueID**		O
		ValueID	**Description**	
		0x01	OFF	
		0x02	Single track repeat	
		0x03	All track repeat	
		0x04	Group repeat	
		0x05-0xFF	Reserved for future use	
0x3	Shuffle ON/OFF Status	**PlayerApplicationSettingValueID**		O
		ValueID	**Description**	
		0x01	OFF	
		0x02	All tracks shuffle	
		0x03	Group shuffle	
		0x04-0xFF	Reserved for future use	
0x4	Scan ON/OFF Status	**PlayerApplicationSettingValueID**		O
		ValueID	**Description**	
		0x01	OFF	
		0x02	All tracks scan	
		0x03	Group scan	
		0x04-0xFF	Reserved for future use	
0x5-0x7F	Reserved for future use			O
0x80-0xFF	Provided for TG driven static media player menu extension by CT			O

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Advanced Audio Distribution Profile (A2DP)

Audio Codec ID

7	6	5	4	3	2	1	0	Codec	Specified In	Used in
0	0	0	0	0	0	0	0	SBC	A2DP	A2DP
0	0	0	0	0	0	0	1	MPEG-1, 2 Audio	A2DP	A2DP
0	0	0	0	0	0	1	0	MPEG-2, 4 AAC	A2DP	A2DP
0	0	0	0	0	1	0	0	ATRAC Family	A2DP	A2DP
1	1	1	1	1	1	1	1	Non-A2DP	A2DP	A2DP
x	x	x	x	x	x	x	x	All other values reserved	A2DP	A2DP

Video Distribution Profile (VDP)

Video Codec ID

7	6	5	4	3	2	1	0	Codec	Specified In	Used in
0	0	0	0	0	0	0	0	H.263 baseline	VDP	VDP
0	0	0	0	0	0	0	1	MPEG-4 Visual	VDP	VDP
0	0	0	0	0	0	1	0	H.263 profile 3	VDP	VDP
0	0	0	0	0	1	0	0	H.263 profile 8	VDP	VDP
1	1	1	1	1	1	1	1	Non-VDP	N/A	VDP
x	x	x	x	x	x	x	x	All other values reserved		