

P1722.1 Media Source and Sink Properties Proposal v1.0

Media source and sink properties

- Type enumeration - 32 bits (r/o)
- Description - UTF8 (r/o)
- User settable name UTF8 (optional r/w)
- Logical Index - 32 bits (r/o)
- Sub-component count - 32 bits (optional r/w)
- Current media format - media format UTF8 string (optional r/w)
- Allowed media formats - list of media format UTF8 strings, separated with null byte. (r/o)

The “type enumeration” field allows for the end user to know what kind of media sources or sinks is on the end station.

The “Description” field is optional, and may be blank or a UTF-8 string in any localization that describes the media source or sink.

The “User settable name” field is may be settable by an end user to any UTF8 string.

The “Logical Index” field is used to describe to the user an index which would be useful to locate the media source or sink. For example, if a device had 4 physical microphone inputs and two video inputs, the logical index for the microphone inputs could be 0,1,2,3 respectively, and the logical index for the two video inputs could be 0 and 1 respectively.

The “sub-component count” field is used to describe how many media subcomponent’s the media source or sink currently contains. For instance, a SP/DIF (iec60958) port may transport a data stream that contains 6 audio channels (5.1 surround audio) or 2 audio channels (stereo)

The “current media format” field is used to describe the current media format and encoding. TBD.

The “allowed media formats” field is used to describe the list of acceptable media formats. TBD.

Type enumerations for media sources

1. Media Clock input
2. Generic Audio source
3. Generic Video source
4. Generic transport stream source
5. MIDI port
6. Time Code port
7. Audio playback
8. Video playback
9. Transport stream playback
10. Analog audio input
11. Analog audio microphone input
12. Digital audio input
13. Analog Video input
14. Digital video input
15. Camera input
16. Transport Stream input
17. Output from audio processing block
18. Output from video processing block
19. Output from transport stream processing block
20. Manufacturer specific prefixed by 24 bit OUI with 8 bit enumeration

Type enumerations for media sinks

1. Media Clock output
2. Generic Audio sink
3. Generic video sink
4. Generic transport stream sink
5. MIDI port
6. Time Code port
7. Audio recording

8. Video recording
9. Transport stream recording
10. Analog audio output
11. Analog audio speaker output
12. Digital audio output
13. Analog Video output
14. Digital video output
15. Video screen
16. Transport Stream output
17. Input to audio processing block
18. Input to processing block
19. Input to transport stream processing block
20. Manufacturer specific, prefixed by 24 bit OUI with 8 bit enumeration