CLUE Framework

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Agenda

• Document changes from version 03 to 04
• Framework structure
• Issues and proposals
  – Simultaneous sets or mutually exclusive sets?
  – Ticket #7 – boolean “composed” attribute
  – Clarify what “composed=true” means
  – site-switch and segment-switch attribute
Changes since interim meeting

• Clarify a consumer can choose a subset of captures from a capture scene entry
• Clarify a stereo audio capture is different from two mono audio captures
• Clarify what it means when coordinate information is not specified
Changes since interim meeting

• Change name of "purpose" attribute to "content" and refer to RFC4796 for values.
• Clarify simultaneous sets apply across all capture scenes
• Remove sentence about lip-sync
• Combine "capture scene" and "capture set" into a single concept
Framework structure – Captures

Note: each N can have a different value, they are not all the same
Framework Structure – Encoding Groups

Encoding Group N

Encoding Group 1
encodeGroupID
maxGroupBandwidth
maxGroupH264Mbps

Video Encodings
Encoding1 \((ID, \text{maxBandwidth}, \text{maxH264Mbps}, \text{maxWidth}, \text{maxHeight}, \text{maxFrameRate})\)
EncodingN \((ID, \text{maxBandwidth}, \text{maxH264Mbps}, \text{maxWidth}, \text{maxHeight}, \text{maxFrameRate})\)

Audio Encodings
Encoding1 \((ID, \text{maxBandwidth})\)
EncodingN \((ID, \text{maxBandwidth})\)
Simultaneous set representation

- Proposal – express it as mutually exclusive sets rather than simultaneous sets
  - More concise and scalable for cases with several mutually exclusive media captures
- If using simultaneous sets:
  - \{VC1, VC3, VC5\} \{VC1, VC4, VC5\} \{VC1, VC3, VC6\}
    - \{VC1, VC4, VC6\} \{VC2, VC3, VC5\} \{VC2, VC4, VC5\}
    - \{VC2, VC3, VC6\} \{VC2, VC4, VC6\}
- If using mutually exclusive sets:
  - \{VC1, VC2\} \{VC3, VC4\} \{VC5, VC6\}
Ticket #7

• Propose Ticket #7 be closed, keep “composed” as a boolean attribute

• Add clarifying text for the attribute and for examples, that information like “loudest panel stream plus PiPs” cannot be conveyed using these simple attributes
Clarify when to use “composed=true”

• Proposal – separate “video composed” and “audio mixed” attributes
• Composed=true means composition is artificial rather than a natural view
• MCU’s might avoid receiving composed video
Scene coordination policy

• Propose “scene-switch-policy” attribute for a capture scene entry
  – {site-switch, segment-switch}

• A capture scene entry that is neither site-switch nor segment-switch should omit this attribute