CLUE media capture description

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CLUE meeting 11/12

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I E T F

Introduction

- CLUE framework
  - Defines several attributes that are associated with captures.
  - These are communicated in Advertisements to a consumer.
  - The consumer uses these attributes to determine which captures to support.
  - Question, is there sufficient information "in CLUE" for a consumer to choose the captures most appropriate to it?

Question

- Is there sufficient information for a consumer to choose the captures most appropriate to it?

- Spatial information

  - Appears to be well covered, Area of capture, point of capture etc…

- Content related information

  - Only covered by Content attribute with a limited set of values:

    - Main, Alternate, Speaker, Slides, Sign Language

Issues with Content

- Sufficient information regarding capture content needs to be in CLUE, can't assume SDP information will be "in time" to parse CLUE Advertisement

- Content attribute
  - Limited stream support – appears to be defined for video + alternate + presentation conference. Doesn't scale to "multi" stream environments.
  - Insufficient information – some values don't allow an educated decision. E.g. there are multiple sign languages. How to chose if multiple captures are provided for different sign languages?
  - Multiple functions – "Main & Alt" describe the source of a capture, "Speaker" indicates the roll of the participant assocaited with capture", "Slides & Sign Language" address content.

Alternative

- Individual attributes to describe the Capture characteristics
  - Attributes should be described to provide a discrete function
  - Applicable to multi-stream environment
  - Should be extensible
  - Not a SDP replacement. Only used to describe the capture. Detailed SDP media information exchanged later.

Proposed initial attributes #1

- Presentation
  - Indicates capture is associated with a presentation, e.g. slides, images, presentation video. Could have simple value "Presentation" or could be hierarchy "Presentation.slides"

- View
  - A textual description of the capture area, e.g. lectern, audience, etc. Keyword to allow automatic selection of desired captures.

- Language
  - A tag which enables a language to be associated with a capture. Useful to select the correct capture when multiple languages are offered. Values likely the same as SDP language attribute.

Proposed initial attributes #2

- Role
  - Describes the roll of the participant associated with the capture, e.g. speaker, chairperson, etc. Keyword based to allow automatic selection.

- Dynamic
  - Indicates whether the spatial information related to the capture will change. Used by consumer to render capture optimally, e.g. reduce the need to change display position at a later time.

- Embedded Text
  - Indicates whether the capture includes embedded text. E.g. allows a consumer to choose a video with text translation over a video without translation.

- Supplementary Description

- Telepresence

Proposed initial attributes #3

- Supplementary Description
  - Indicates that the capture is additional to the main conference and provides supplementary information regarding the conference, e.g. translation, commentary.

- Telepresence
  - Indicates that the capture should be rendered to maintain a feeling of "telepresence". I.e. lighting, spatial information and timing are important. E.g. a terminal using multiple streams may send a CLUE advertisement but it doesn't mean that it's a telepresence terminal. A consumer may save resources if it doesn't have apply the same level of processing in this case.