Mapping RTP streams to CLUE media captures

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Introduction

- CLUE framework defines Media Captures that provide information about the semantics of the streams like spatial relation
- SDP describe the characteristics of the streams and the connection information.
- Need to map between media captures and actual streams described SDP
- Try to avoid duplication of information between SDP and CLUE
Assumptions

• Multipoint signaling is based on centralized conference server. Model may depend on size of roster and properties of streams
  • Conference roster based on XCON event package
  • Conference roster based on RFC5576
• The MCU handles media as an RTP mixer
• The MC add some semantics to each media stream.
  • There can be more than one semantic to a stream e.g. same source is sending video of the whole room or third of the room.
• Call setup can use one or more offer/answer exchanges
  • Discussed in transport draft
Proposal

• SDP offer will include an m-line for each MC in the physical simultaneity entry with the largest number of MC.
  • The encoder is the same for all mutually exclusive elements since the constrain is physical.
• Define a captureID grouping so each m-line in the group will have a unique ID to be used by a MC
• Define a CLUE MC attribute RTP-id that will use the same unique IDs