SDP Elements for FEC Framework

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FEC Framework in One Slide

• The FEC Framework defines
  – The common components and aspects of Content Delivery Protocols (CDP)
  – The requirements for the FEC schemes
  – What configuration information has to be minimally known at the sender and receiver(s)
    → FEC Framework Configuration Information

• The FEC Framework DOES NOT specify
  – The internal mechanics of the individual FEC schemes
  – How the configuration information is negotiated or signaled between the sender and receiver(s)
    → These are rather specified by the FEC scheme or CDP
SDP Elements for FEC Framework

- The sender and receiver(s) **MUST** know how to configure the FEC Framework instance(s)

- A CDP using SDP (RFC 4566) as the session description protocol **MUST** use the SDP elements introduced by this document
  - SDP is not, however, the only means to configure the instances
Configuration Information

- This information specifies the relationship(s) between the source and repair flows

- Each FEC Framework instance MUST provide
  - Identification of the repair flows
  - For each source packet flow protected by the FEC repair flow(s):
    - Definition of the source flow
    - An integer identifier for this flow definition
  - FEC Scheme ID that identifies the FEC scheme
  - Length of the Source FEC Payload ID (in bytes)
  - An opaque container for the FEC-Scheme-Specific Information
Example

SOURCE FLOWS
1: Source Flow
2: Source Flow
3: Source Flow

FEC FRAMEWORK
4: Repair Flow
5: Repair Flow
6: Repair Flow
7: Repair Flow
8: Repair Flow
9: Repair Flow
Media Stream Grouping

• We use the ‘group’ attribute and the FEC grouping semantics defined in RFC 4756 are used to associate source and repair flows together

• We support multiple layers of FEC protection (additive)

• We support prioritization among different layers
Comments/Feedback

- We don’t like to reinvent the wheel
- Send us any feedback you think that is necessary at the early stage