Untangling some SDP/CLUE interactions

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SDP/CLUE independence

• Some changes (such as adding a stream) may involve both SDP and CLUE changes
• With multiple channels, changes are no longer atomic
• How to ensure best behaviour at all stages of a change?
Suggestion: Channels independent

- SDP and CLUE channels are independent – either can change freely
- Far end must only act on intersection of channel information
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- SDP and CLUE channels are independent – either can change freely
- Far end must only act on intersection of channel information
- No need for complex state machines to define valid transitions
- SDP changes by middle box no longer risk an invalid state
Split of SDP/CLUE information
SDP as envelope

- Simple division of new information
- Not compatible with other approaches to negotiating multiple streams
Media negotiation in SDP

- Can use common multi-stream SDP syntax
- SDP defines media streams, CLUE defines specific *content* of those streams