

CLUE Signaling

draft-kyzivat-clue-signaling-02

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CLUE Signaling History

- 00 31-jan basic outline, no significant content
- 01 4-feb two call flows added by Roberta
- 02 18-feb numerous proposals added.
(Developed by Paul, Lennard, Christian.)

CLUE Signaling Status

- Just a proposal
- Very incomplete
- What's there hasn't had much discussion
- Looking for contributions
- Hope this structure can help “divide and conquer” – allow more focused contributions
- Need volunteers to review, comment, elaborate.

CLUE Signaling

Open Issues

- Versioning & Version negotiation
- Option & Extension mechanism
- Payload of ADV, CFG, ERROR messages
- CLUE msg acknowledgement mechanism
- Channel mgmt & lifetime
- Coordination of CLUE and SDP
- Use Cases are ahead of document
- Legacy interop
- CLUE over RTCWEB

CLUE Signaling

Versioning & Version negotiation

- What versioning strategy to take?
 - Declare version – other side take it or leave it
 - Declare version range – other side chooses
 - Major/Minor version?
- Where to convey and negotiate
 - In the CLUE channel?
 - In the SIP/SDP?
- Scope of version
 - SIP session
 - Lifetime of CLUE channel
 - Until renegotiated
 - Per CLUE-message

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Option & Extension mechanism

- Are options and extensions different?
- Do extensions require a new version?
- Should we follow a “ignore what you don’t understand” policy?
- Must options/extensions be negotiated before use?

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Payload of ADV, CFG, ERROR messages

- Upcoming data model will have building block types for use in constructing messages.
- We need to define the actual messages
 - As part of signaling doc?
- Must decide
 - is one clue msg per SCTP msg is ok?
 - OR, do we want to pack our messages?
 - How much detail do we want in ERROR messages?

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msg acknowledgement mechanism

- Which messages require an ACK?
- Explicit or implicit ACK?
 - e.g. CONFIG as implicit ACK of ADVERTISEMENT
- How long to wait for an ACK?
- What to do if ACK doesn't arrive?
- What to do while awaiting ACK?

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Channel mgmt & lifetime

- What to do before channel established, and after channel is closed?
- How to establish the channel?
- How to initialize the channel?
- If/how to recover from errors on the channel

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Coordination of CLUE and SDP

- Relative ordering & dependency of messages
 - [draft-hansen-clue-sdp-interaction-01](#) suggests very loose dependencies
- Association of capture-encodings to SDP m= lines
- Mechanism for capture encoding multiplexing
- How to negotiate which capture-encodings are multiplexed

CLUE Signaling Use Cases

- Use cases currently in doc aren't aligned with other content in doc
- Will need to be updated as we make decisions

CLUE Signaling Legacy interop

- Still just a place holder

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CLUE over RTCWEB

- Still just a placeholder
- First need to establish what we wish an RTCWEB client to be able to do with CLUE

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Next Steps

- Review whats there now
 - Additions & restructuring
 - Alternatives
- Volunteers to work on sections and issues