ICE-SIP-SDP

draft-ietf-mmusic-ice-sip-sdp-10

IETF#97

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(2) DEFAULT CANDIDATE IN SDP ANSWER

• WHAT DO I NEED TO KNOW?
  
  – m-line in SDP answer must contain same transport value as the corresponding m-line in the associated SDP offer
    
    • RFC 3264 actually doesn’t say that, but I assume that is the rule
  
  – draft-ietf-mmusic-ice-sip-sdp-10 says that the c/m-line of SDP offers and answer must contain the default candidate
(3) DEFAULT CANDIDATE IN SDP ANSWER

• WHAT’S THE ISSUE?
  – What if the offerer and answerer use different transports for their default candidate?
    • Answerer can not insert default candidate in m-line of answer

• HOW DO WE SOLVE IT?
  – Remote the requirement to include the default candidate in the c/m-line of the SDP answer
    • When the SDP answer is sent, it is known whether ICE will be used (read: m-line transport does not matter)
(4) NON-SUPPORTED TRANSPORT IN m- LINE

• WHAT DO I NEED TO KNOW?
  – m- line in SDP answer must contain same transport value as the corresponding m- line in the associated SDP offer
  • RFC 3264 actually doesn’t say that, but I assume that is the rule
(5) NON-SUPPORTED TRANSPORT IN m- LINE

• WHAT’S THE ISSUE?
  – What if the answerer does not support the transport in the m- line of the SDP offer?
    • The answerer DOES support the transport in one or more of the candidates provided in the SDP offer
  – Does the answerer have to reject the SDP offer?
NON-SUPPORTED TRANSPORT IN m-LINE

- HOW DO WE SOLVE IT?
  - **ALT #1**: Every protocol supporting ICE must define a mandatory-to-support transport, and must use that as default candidate (read: must be in m-line).
    - Most protocols (RTP, SCTP-over-DTLS) do this.
    - What about BFCP?
  - **ALT #2**: Allow answerer to include transport in c/m-line even if it doesn’t support it.
    - When the SDP answer is sent, it is known whether ICE will be used (read: m-line transport does not matter)
WHAT DO I NEED TO KNOW?

– Two endpoints negotiate a media session using both UDP- and TCP- based candidates

– Before nomination:
  1. Media can be sent on valid candidate pairs
  2. Media can be switched between valid candidate pairs
  3. Transport may change
(8) TRANSPORT SWITCH AND O/A

• WHAT SHOULD WE CLARIFY?
  – #1: When an endpoint switches transport, it does not need to send an offer in order to align the m-line transport with the new transport
  – #2: When an offer is sent for another reason, the m-line transport shall match the currently used transport

• What if offerer and answerer use different transports?
THANKS FOR LISTENING!