draft-murillo-whep-01

https://datatracker.ietf.org/doc/html/draft-murillo-whep-01

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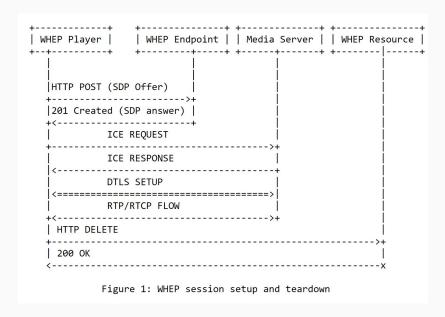
WHEP: WebRTC-HTTP egress protocol

- Egress is out of scope ot WISH WG
- WHEP reuses all the mechanisms the have been put in place for WHIP: draft is basically /WHIP/WHEP/g
- Why WHEP?
 - Interoperability between WebRTC services and products.
 - Reusing player software which can be integrated easily.
 - Integration with Dynamic Adaptive Streaming over HTTP (DASH) for offering live streams via WebRTC while offering a time-shifted version via DASH.
 - Playing WebRTC streams on devices that don't support custom javascript to be run (like TVs).
- WHIP and WHEP can be used together for service interoperability
- Should we recharter the WISH WG to include egress?
 - Presented at DISPATCH: Up to the WISH WG to decide if the WG should be rechartered to add egress in the scope.



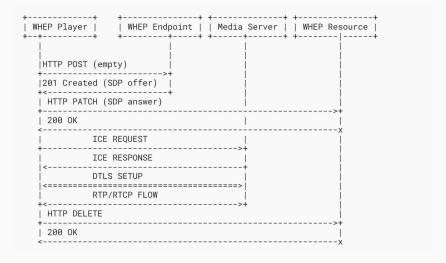
WHEP Protocol Operation

Sounds familiar?



WHEP Protocol Operation (WHEP Client as answerer)

- WHEP Player may wish the service to provide the SDP offer
 - avoid setting up an audio and video session when only audio is supported
 - some webrtc implementations don't support createOffer (WTF)
 - Allows WHIP to WHEP interoperability
- Pros:
 - Issue with turn server config solved
- Cons:
 - Media server may not now the actual codecs when the WHIP player connects
- Should we adopt it in WHIP too?



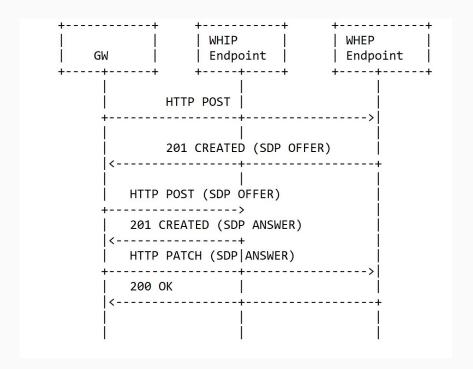


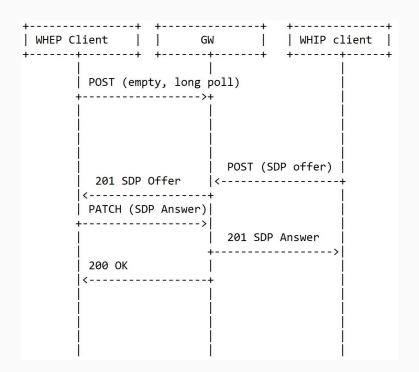
What's missing?

- WHEP has more requirements in terms of functionality than WHIP
- Need to define extensions to match DASH functionality
 - Multilanguage support
 - o Remote pause/mute
 - Subtitles/Live captions
 - Metadata
 - Client side resolution/quality selection
 - Events?



WHIP/WHEP interoperability







Next steps

- Define and add protocol extensions for missing metadata
- Recharter WISH WG and adopt WHEP as WG item.

