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DTLS Fingerprints in SDP Offer/Answer are not verified #1708



⊙ Closed gaukas opened this issue on Mar 17, 2021 · 9 comments

gaukas commented on Mar 17, 2021 • edited 🕶

Your environment.

- Version: pion/webrtc v3.0.14
- Browser: N/A
- Other Information reproducable with example/data-channels-create & example/data-channels

What did you do?

- Run both data-channels-create and data-channels from example.
- Once the SDP offer has been generated, decode it with base64.
- Randomly edit the DTLS fingerprint value in the SDP offer
- Copy & paste the base64-encoded SDP offer into the waiting data-channels
- Copy & paste the SDP answer generated by data-channels into data-channels-create

What did you expect?

The built-in fingerprints verification should throw an error and therefore prevent the data-channel from being established.

What happened?

The data channel was created as usual.

ICE Connection State has changed: checking ICE Connection State has changed: connected

Data channel 'data'-'824635660400' open. Random messages will now be sent to any connected DataChannels every 5 seconds

Sending 'SBfBWYaFzaFZDiV'
Message from DataChannel 'data': 'EtaKTfGglNgpNNn'

Sean-Der commented on Mar 17, 2021

Member

Hey @gaukas

We do have a test for this TestInvalidFingerprintCausesFailed that is properly catching this. I will confirm this works and update as appropriate thanks for filing this!



Sean-Der closed this as completed in c901d6f on Mar 17, 2021

Sean-Der commented on Mar 17, 2021

Member

Hey @gaukas what browser are you using to test?

I believe the remote peer isn't the one properly asserting.

thanks

gaukas commented on Mar 17, 2021

Author

I am not using any browser. The offerer is data-channels-create and the answerer is data-channels. Both are go binaries.

gaukas commented on Mar 17, 2021

It may not be that simple because I tried to mess with both fingerprints in offer and answer. The data channel was still created successfully.

gaukas commented on Mar 17, 2021

@Sean-Der but thank you for the fast response! I really appreciate it. Please let me know if there's anything else I could help with.

Sean-Der commented on Mar 17, 2021 • edited ▼

Member

Ah I see. So the issue is that we set PeerConnectionState to failed, but we don't actually tear down the connections.

I will fix that and tag a new release. This probably even warrants a CVE! If you are interested, good for resume and helps people update quicker.

gaukas commented on Mar 17, 2021

Author

