

# RTCWEB

## STUN Extensions for Authenticated Firewall Traversal

draft-reddy-rtcweb-stun-auth-fw-traversal-00

Aug 2<sup>nd</sup> 2012

IETF 84 meeting

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# Agenda

- Problem Statement
- Existing Model and Challenges
- Proposed Model
- Next Steps

# Problem Statement

- Corporate firewall blocks UDP traffic
- Thus, RTP/SRTP traffic has to use:
  - TCP
  - TURN
  - Session Border Controller

# Existing Model: ALG (Application Layer Gateway )

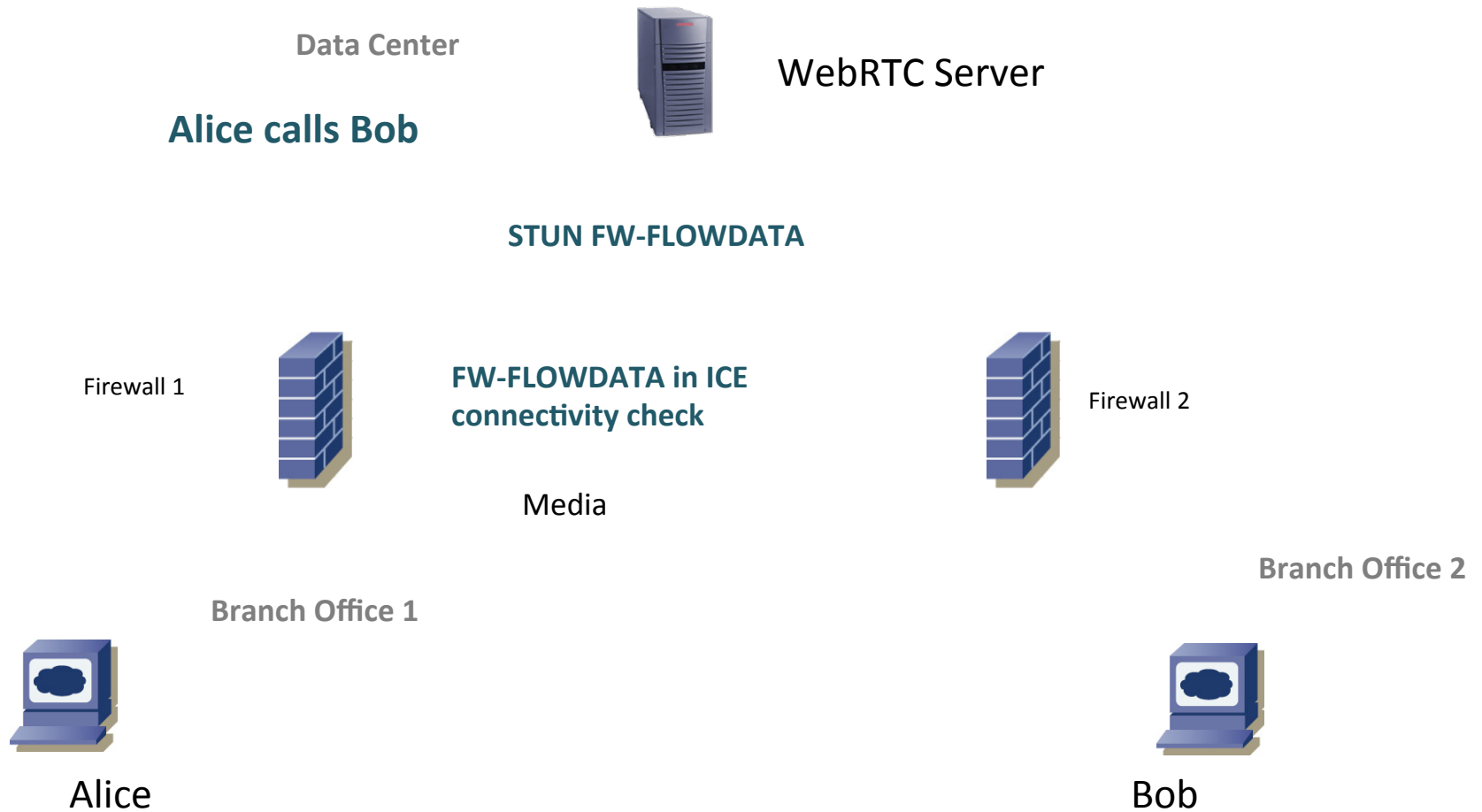
- Requires unencrypted signaling
  - RTCWEB has encrypted signaling (TLS)
- Other reasons ALG is bad

# Proposed Solution

- UDP flows are authorized to traverse firewall
- Mechanism: new attribute in ICE connectivity checks

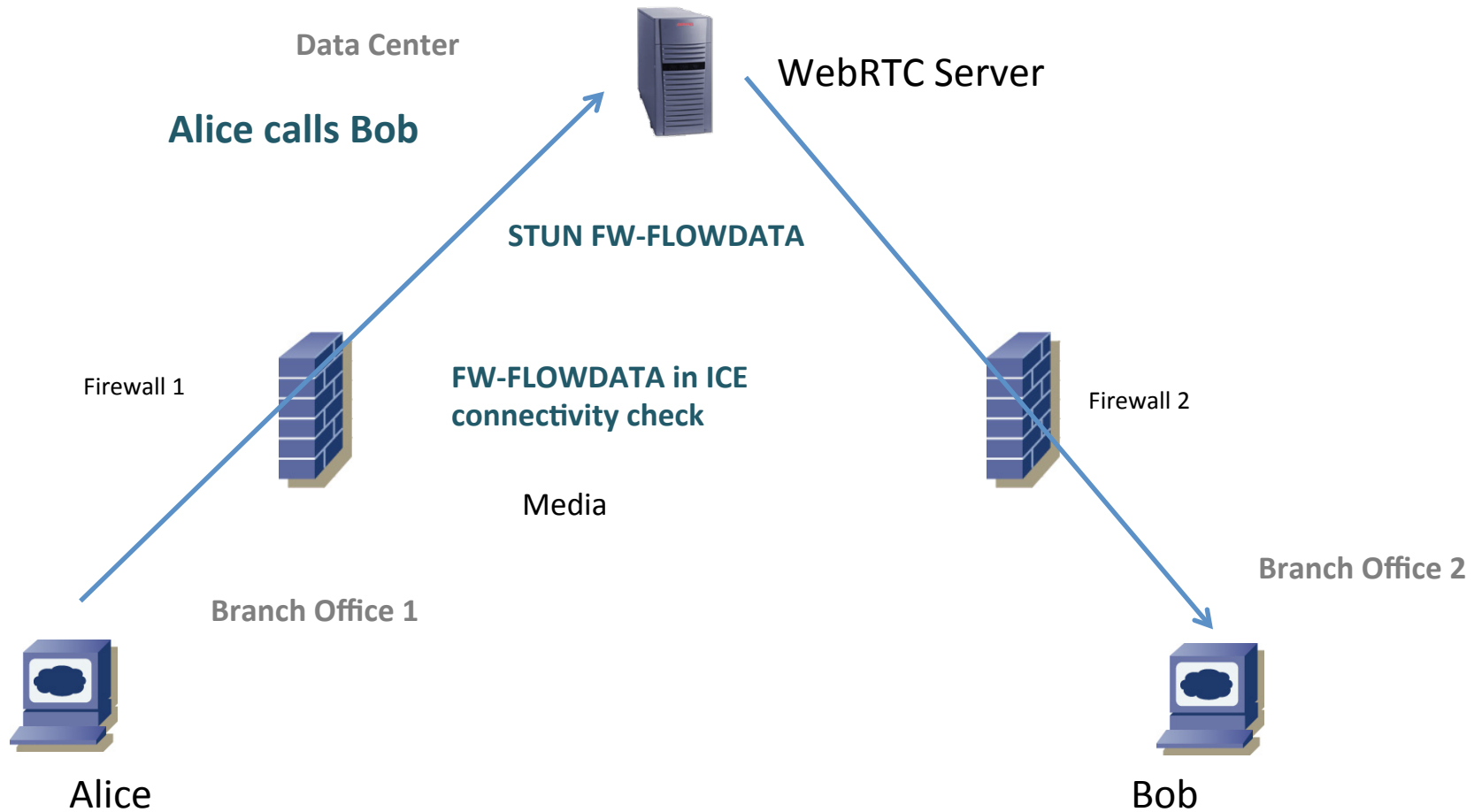
# Proposed Model

(Scenario: WebRTC service in enterprise - internal call)



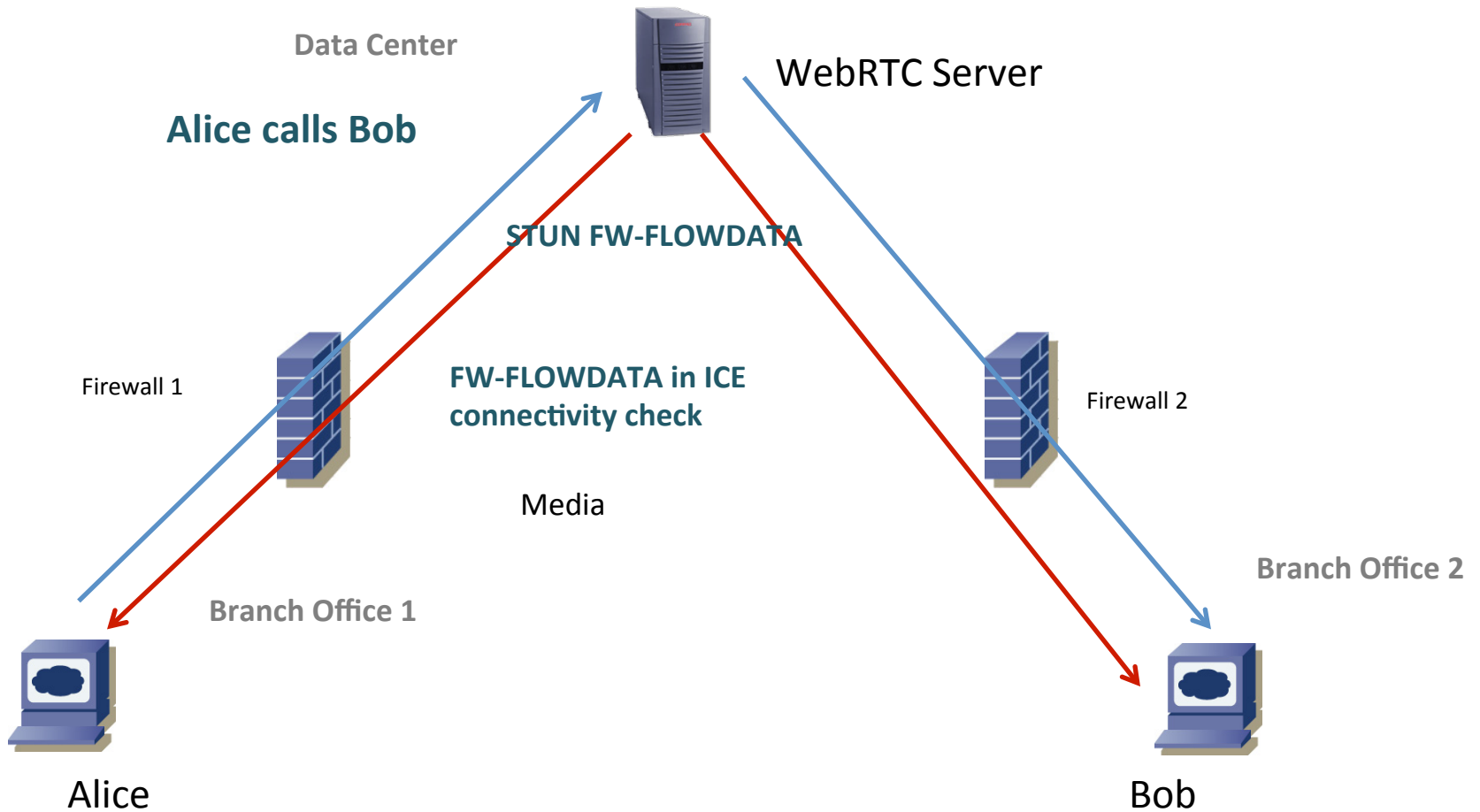
# Proposed Model

(Scenario: WebRTC service in enterprise - internal call)



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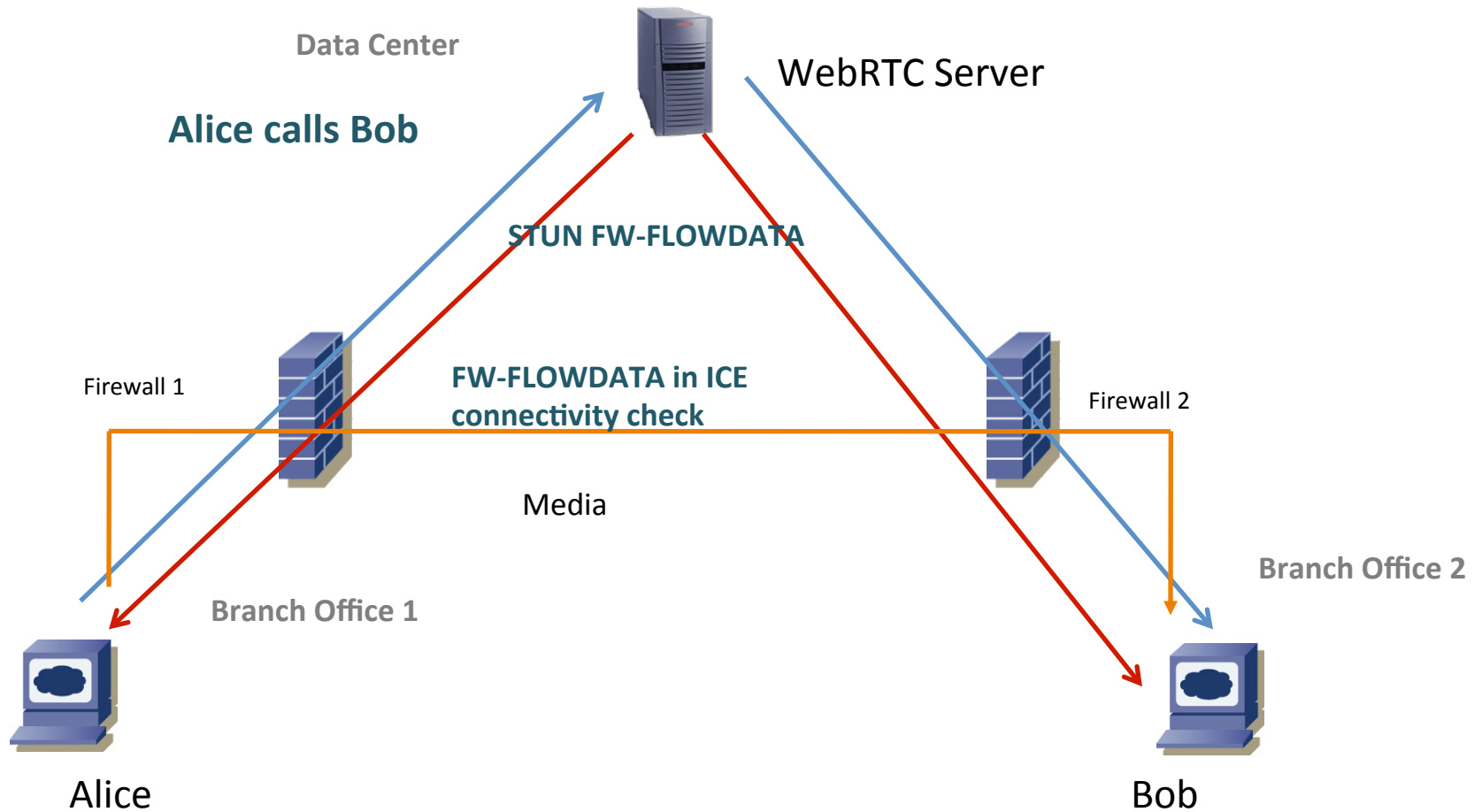
(Scenario: WebRTC service in enterprise - internal call)





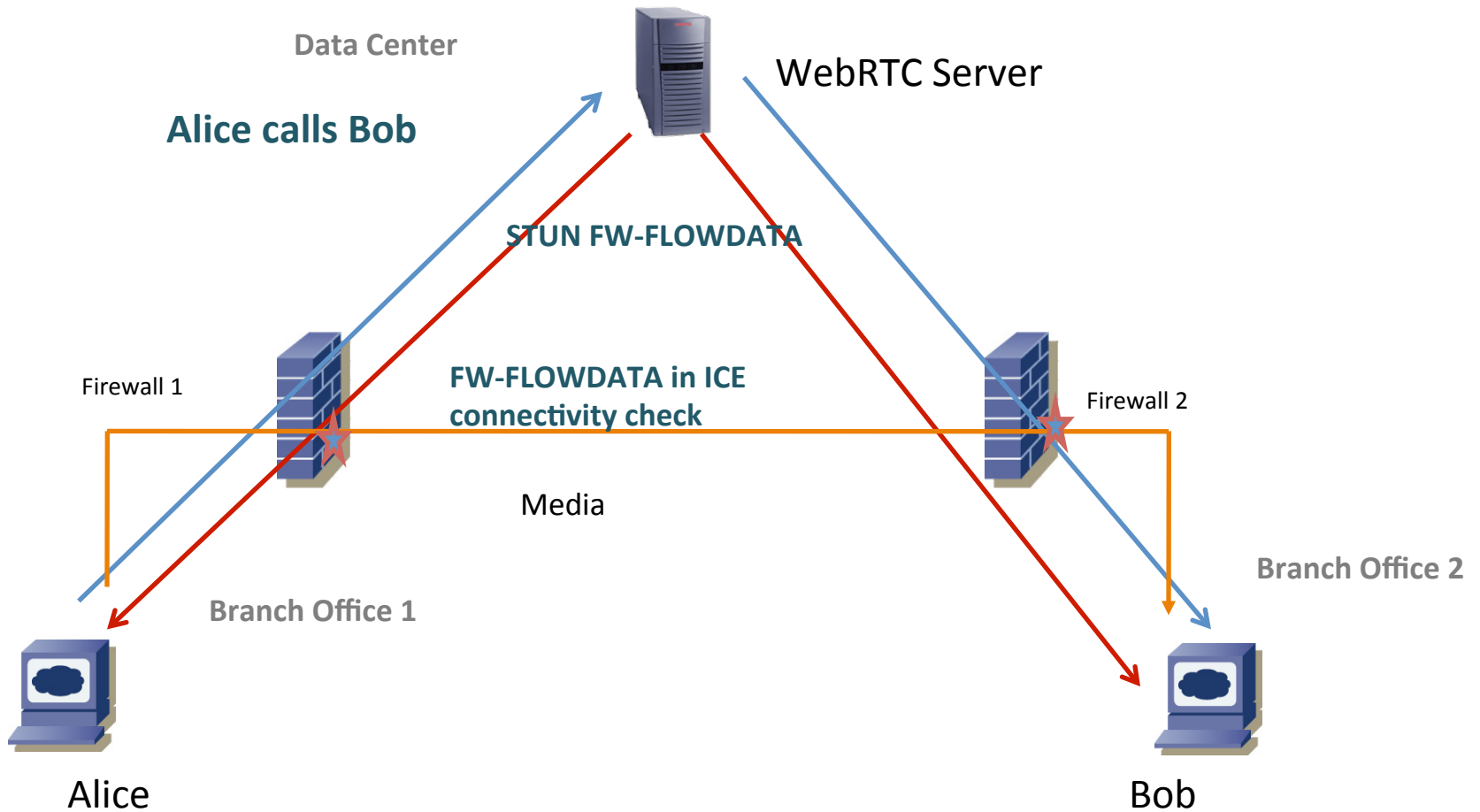
# Proposed Model

(Scenario: WebRTC service in enterprise - internal call)



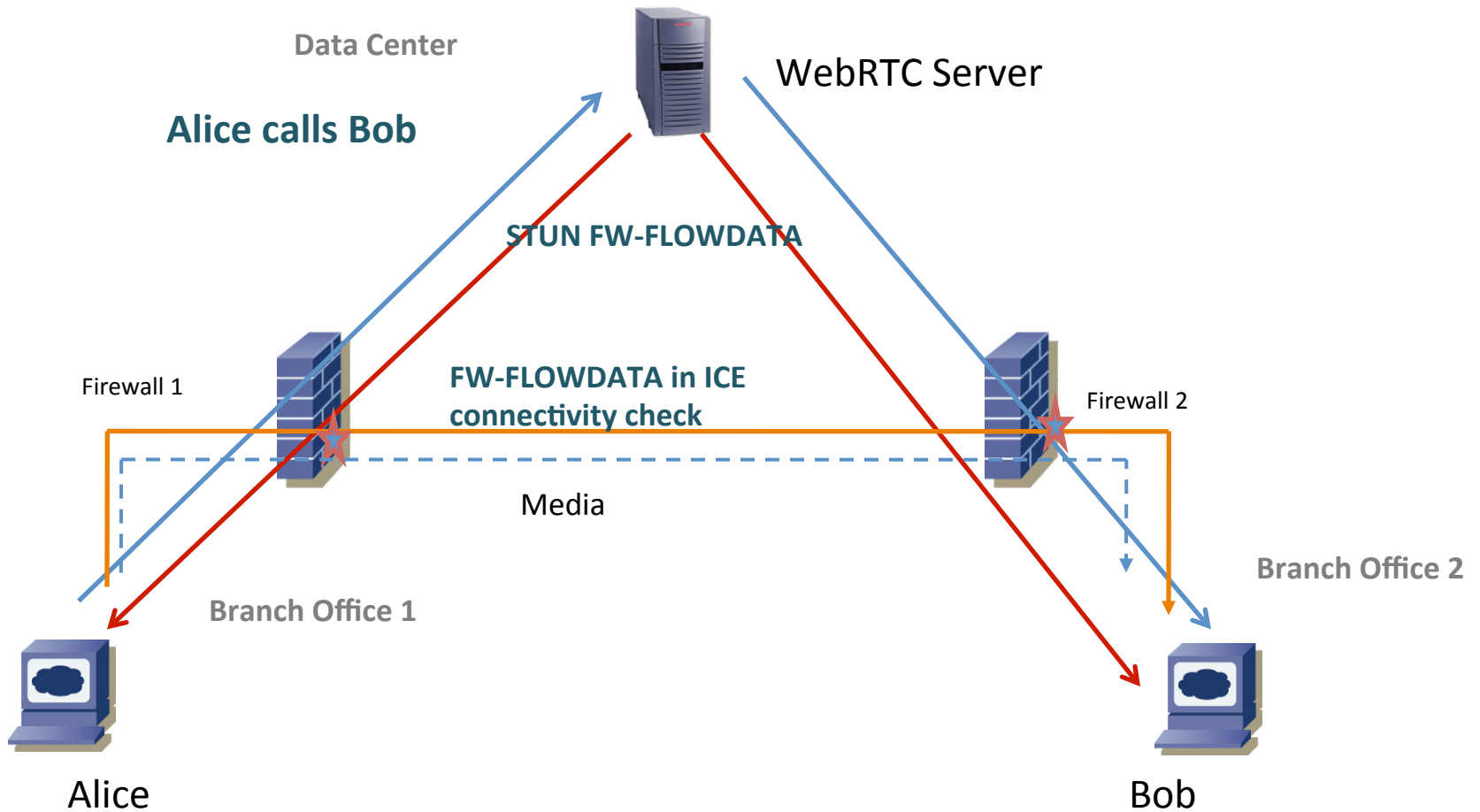
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# Next steps

- Firewalls blocking UDP a problem for RTCWEB?
- Is there interest in solving this problem?
- Interesting when crossing administrative domains?