

# DTLS as Transport for STUN

draft-petithuguenin-tram-stun-dtls

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# Overview

- This draft specifies the usage of DTLS as a transport protocol for STUN.
- DTLS offers necessary security and a more optimal transport for RTC.
- Provides guidance on how to use DTLS with the current STUN Usages and makes modifications to STUN/TURN URI & TURN resolution mechanism (to allow DTLS).

# Open Issues (#1)

- Currently the draft states:

STUN over DTLS MUST, at a minimum, support  
TLS\_ECDHE\_ECDSA\_WITH\_AES\_128\_GCM\_SHA256

*What is the recommendation these days?*

# Open Issues (#2)

- Currently the draft states:

Any STUN request or indication without the magic cookie over DTLS MUST MUST always trigger an error when receiving a request from Classic STUN.

- This a departure from RFC 5389, which does not explicitly state what to do in that case. *Is this the right decision?*

# Open Issues (#3)

- Currently the draft states:

Future STUN usages **MUST** take into account DTLS as a transport and discuss its applicability.

- RFC 5389 omitted to say that transport applicability **MUST** be discussed.

Is this a reasonable addition?

# Open Issues (#4)

- Currently the draft states:

The <host> value MUST be used when using the rules in Section 7.2.2 of [RFC5389] to verify the server identity.

- Now we have STUN/TURN URI & can use domain name to verify server identity.  
What if an IP address is used in the URI?  
Should we reject it?

# Next Steps

- Other issues?
- Need additional reviews
- For milestone:
  - Send draft adding DTLS as a transport for STUN/TURN to IESG
- Adopt as WG document to satisfy this?