

Authentication and (D)TLS Profile for DNS-over-(D)TLS

draft-ietf-dprive-dtls-and-tls-profiles-07

S. Dickinson Sinodun
D. Gillmor ACLU
T. Reddy Cisco

Current Status

- 2 week WGLC started on 6th Oct (on -03 version)
- WGLC extended due to lack of review
- More review since
- -07 version published with moderate re-structure

Remaining issues

- Opportunistic - specifics of behaviour
 - Auth & Enc
 - Enc
 - Clear text
 - Hard fail

“Clients using Opportunistic Privacy SHOULD try for the best case but MAY fallback...”

Change this to MUST to maximise privacy but potentially increasing latency?

Remaining issues

- Opportunistic - specifics of behaviour
 - Auth & Enc
 - Enc
 - Clear text
 - Hard fail

RFC7354 allows this - but should we remove this so clients **ALWAYS** use clear text for improved usability?

Or is there a small set of cases where this may be desirable?

Implementations

- stubby - a DNS Privacy enabling stub resolver
- getdns running as a daemon, pointed at DNS Privacy test servers (work in progress)
- From this draft:
 - Strict and Opportunistic
 - Name and SPKI authentication

Lets make DNS great again!

- Really need to move the draft forward
- Last big piece in the stub to recursive story

Please review!

Volunteers?