

Split DNS

Configuration for IKEv2

draft-pauly-ipsecme-split-dns-02

Tommy Pauly (tpauly@apple.com)

IPSECME

IETF 97, November 2016, Seoul

New in split-dns-02

- Clarification of DNSSEC payload types
 - Changed INTERNAL_DNSSEC_TA from presentation to wire format
 - Explained how to associate DNSSEC values with specific domains
- Incorporated textual changes from three reviewers

Next Steps

- Charter targets IETF last call for February 2017
- Get formal working group adoption. Is there any outstanding feedback?
- More interoperability (Apple-Libreswan tested)
- IANA assignment

TCP Encapsulation of IKE and IPsec Packets

draft-ietf-ipsecme-tcp-encaps-03

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Fallback from UDP to TCP

- Clarification and guidance requested during charter review
- Added following recommendation to -03:
 - Always attempt UDP first
 - Wait for some fraction of the configuration's retransmission of IKE_SA_INIT

Fallback from UDP to TCP

- Previously have proposed having a separate informational draft with more recommendations for how TCP encapsulation will be used for scenarios like Wi-Fi Calling (ePDG/IWLAN)
- Do we think this work would be useful?
- Are there other recommendations that should be part of the current proposed standard draft?

Not Just TCP

- The encapsulation headers to send IKE and ESP in a stream can work over any stream
- TCP, TLS, or something else in the future
- Added clarification in response to charter discussion. Do we want more emphasis on this point?

Multiple TCP x Multiple IKE/Child

- Areas of confusion around use of multiple TCP flows for a single IKE SA, or multiple IKE SAs for a single TCP flow
- New version clarifies that all combinations are supported; however, generally one-to-one is advised
- This is based on the premise that the IKE associations should be independent from TCP connections

Next Steps

- Continue interoperability testing (Apple-Cisco tests validated). If you have an implementation, please let us know!
- Charter targets IETF last call for December 2016
- Let's wrap it up!

