

XMPP DNA

IETF 83

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Existing Work

draft-hildebrand-dna-00 (2009/10)

draft-ietf-xmpp-dna-00 (2010/01)

draft-barnes-dna-00 (2010/08)

draft-ietf-xmpp-dna-01 (2011/03)

The Problem

How to trust a connection is authorized for traffic intended for a given domain

Building Blocks

- Determine Trust
- Delegation & Piggybacking

Approaching Trust

- Multiple approaches
- well-defined belief suspension

Proof Types

- DANE
 - certificate from `TLSA _xmpp-server._tcp.capulet.lit`
- HTTPS/.well-known
 - certificate from `HTTPS://capulet.lit/.well-known/_xmpp-server._tcp...`
- PKI
 - cache all the names



Approaching Delegation

- stream:feature to signal “don’t freak out”
- Connection has a “allowed-names” list
- start empty, signal for additions

Signaling Delegation

- dialback
 - maybe without keys
- what about c2s?



Outcomes

- “federation” document
- DANE proof type document
- HTTPS/.well-known proof type document