EAP-TLS use case



Challenges with TLS client identity and EAP-TLS

DANE client identity and EAP-TLS

Q&A

Challenges with EAP-TLS supplicant authentication

Expensive

Current best practice dictates the use of a single private PKI

This requires the organization to build/buy/maintain a private PKI

PKI onboarding is a time-consuming activity

This is a steep expense for small organizations

Interoperability barriers

A device needing to access multiple organizational networks needs multiple IDs Guest access for non-org (contract) workers is complicated to implement

Using DANE for EAP-TLS supplicant ID

One device identity, represented in DNS Configure supplicant access lists using DNS names Revocation at the speed of TTL

Useful identity may be provided by manufacturer or 3rd party No need for small organizations to operate private PKI No PKI onboarding time cost

Use case: Network access for leased devices

- 1. Supplier (vendor.example) provisions devices with DANE IDs
- 2. Supplier ships devices to consumer/implementer
- 3. Implementer configures device network access
 - a. Add device DANE ID to network ACL
 - b. Configure device with network name (WiFi SSID)
 - c. Configure EAP-TLS server auth (install CA cert)
- 4. Network bootstrapping complete

Supplier-issued identity bootstrapping





Q&A