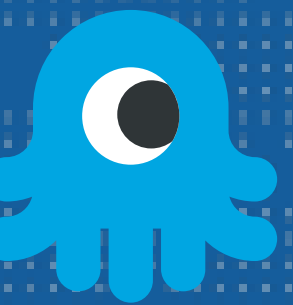


Extended ID

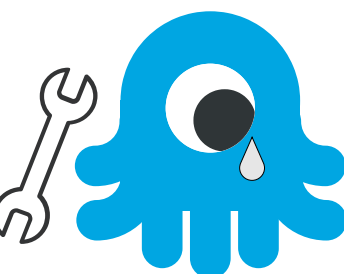
WHEN 8 BITS AREN'T ENOUGH

ALAN DEKOK IETF 116



8 BITS ARE NOT ENOUGH

- ▶ Opening more source ports can cause problems on high-load systems
- ▶ 8 bits prevents us from fully using TCP
- ▶ Luckily we do have a large and unique ID in every RADIUS packet
 - ▶ The authenticator field
- ▶ The document goes through great lengths to explain why this works
 - ▶ and why it is *never* a problem



HOW IT WORKS

- ▶ Just use Authenticator as unique ID for RADIUS packets
 - ▶ It's already globally / temporally unique!
- ▶ Needs replies to contain Original-Request-Authenticator attribute
- ▶ Preliminary implementation has been done



THE PROBLEM

- ▶ Negotiation of this extension is a nightmare
 - ▶ The draft has lots of text around how to go from “normal” to “extended”
 - ▶ Simplifying that process would help a lot
- ▶ Do we need negotiation?



QUESTIONS TO ADDRESS

- ▶ Do we need negotiation?
- ▶ Or do we just say “both ends must be configured with an extra flag allowing it”
- ▶ Or do we just use TLS and ALPN?

