RADIUS over TCP


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Introduction

• RADIUS over TCP
  – Draft is specific to this issue.
  – No RADSec, TLS, or DTLS discussion
• Reliable transport is good in some situations
  – When there are a LOT of packets.
  – i.e. inter-proxy
• References [2865] and [3539] a lot
  – Re-iterates their points in one document
  – With additional comments
Protocol

- It's just RADIUS.
  - No packet format change
  - No security change
  - etc.

- MIB interactions
  - Awkward at best.
  - MIBs don't contain protocol specification.
  - MAY include protocol in server string?
TCP Issues

- TCP servers are not necessarily the same as UDP
  - Same IP/port, different proto == different server
- Existence of TCP connection MAY be useful
- [3539] for watchdog timer
- No duplicates or retransmissions
  - Unless connection is broken without a response
- “silently discard” --> close connection, too!
Problems

• ID field is 8 bits.
  - No more than 256 Auth/Acct packets can be sent over one connection

• Proxies can be more fragile
  - client -> proxy connection closed means that
  - proxy <- home server packets get dropped
Discuss?

- No Diameter considerations
- Security?