

RADIUS over TCP

<http://www.ietf.org/internet-drafts/draft-dekok-radext-tcp-transport-00.txt>

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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?