

Proxy BCP

RADEXT - IETF 125

Let's all get along

SPLIT OUT FROM “DEPRECATING” DOCUMENT

- ▶ RFC 2865 has very little to say about proxying:
 - ▶ *(these issues)* are the topic of current research and are not specified in detail in this document.
- ▶ ~30 years later, it is perhaps time to specify some details

PROBLEMS

- ▶ In addition to lack of signalling (see Protocol-Error), there are many issues seen in proxying
- ▶ Implementations and deployments have come up with “ad hoc” solutions to these issues.
- ▶ It is time to standardize them

THE DOCUMENT

- ▶ It goes over a long list of issues in proxying
 - ▶ What the problem is, what affect it has on the network
 - ▶ and the recommended solution
- ▶ There isn't time here to go through the list in detail

THE LIST

- ▶ Silently discard
- ▶ Access-Reject
- ▶ Retransmission and RFC5080
- ▶ Acct-Delay-Time and congestive collapse
- ▶ No routing protocol
- ▶ Filtering of requests and responses
- ▶ No error signalling
- ▶ client misbehaviour with delayed rejects
- ▶ timeouts across a proxy chain
- ▶ deduplication and EAP
- ▶ Proxy-State
- ▶ rate limiting
- ▶ Load balancing
- ▶ differing rates on inbound and outbound
- ▶ accounting store and forward
- ▶ protection from DoS attacks
- ▶ Don't be anti-social

QUESTIONS / COMMENTS?

- ▶ The document needs much more content
- ▶ The basic outline is there, and has been reviewed by multiple implementations and operators of high-load proxy environments