

draft-ietf-dnssd-srp

Ted Lemon <elemo@apple.com>

Status of draft

- Various life events have prevented me having time to do the updates discussed in San Francisco
- Possibly co-authors will help?
- Despite this, advertising proxy document has been updated to reflect some of the ideas that came up in San Francisco

More lessons learned

- When SRP Replication is combined with Advertising Proxy, there are a lot of ways it can go wrong
- Each SRPL peer needs to probe each registration over mDNS
- This consumes a lot of airtime repeating work that's already been done
- TSR doesn't help us with this because it's only in probes, so we can't skip probes.
- This has inspired the updates to the TSR document presented separately.

More issues

- SRP replication host updates can include multiple messages to represent complete state of host registrations
- Data in earlier messages may conflict with data in later messages
- This means that on initial sync, it's very easy to get conflicts
- Apple implementation would give up if an update didn't successfully apply
- Google implementation would ignore such failures, which worked, but wasn't ideal
- A better approach would be to prepare all the updates at once and eliminate redundant updates

Upcoming work

- Apply updates for comments already made
- Describe how to avoid unnecessary probes with new TSR
- Do we need to document “redundant updates” strategy?
 - I think we need to say something
 - We probably don’t need to give details
 - Current advertising proxy spec is consistent with not updating on every message
- Maybe like this:
 1. Fully synchronize with peer
 2. Trigger APx to publish

draft-ietf-dnssd-srp

Ted Lemon <elemo@apple.com>