An EDNS0 option to negotiate leases on DNS Updates

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Problem

• DNS owner names and RRs can be added with DNS update
• Such names are not automatically removed:
  • Either the DNS Update client removes the record, or
  • The administrator notices that there is stale data and removes it, or
  • It just sits there in the zone forever
• Service Registration Protocol updates need to include a lease time
• Other DNS updates would also benefit from lease times
Solution

- A new EDNS0 option that specifies a lease time for all updates in the message
- Also includes a second lease time for the KEY record for SRP updates
- The lease is in seconds relative to the time the update is received
- If the Update client wants to the record to stay around, it has to keep renewing it
- If it doesn’t, it’s eventually garbage collected
- Optionally, if it sends a KEY record and a KEY lease, the owner name(s) can be held for longer, without the rest of the updated RRdata being visible, to prevent other clients from getting the name when the client is temporarily not on the network.
Status

- This document has been around for a long time
- Recently adopted by the working group
- Needed for SRP to advance
- Has some text talking about regular DNS updates
- That text hasn’t been worked on in a while
- We would like to update it and finish the document
Request to the WG

• Now that the document is a WG document, please read it
• Please send comments, flames, etc to the mailing list (really, please, don’t send flames)
• We would like to progress this quickly
• If we can get comments on the WG mailing list quickly, I can rev the document and maybe we can move to last call?