

Active Leasequery for DHCPv6

draft-raghuvanshi-dhc-dhcpv6-active-
leasequery-00.txt

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Upcoming Quiz Question ...

Does anyone want to standardize a capability to allow an external process to keep up to date with all leasing activity on a DHCPv6 or DHCPv4 server?

What is Active Leasequery

A way for an external process to receive near real-time updates regarding lease activity performed by a DHCPv6 server.

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A way for an external process to receive near real-time updates regarding lease activity performed by a DHCPv6 server.

- Multiple clients can connect to multiple DHCPv6 servers.
- One client can (and should) connect to both DHCPv6 servers which are associated to provide high availability (or load balancing).

Why do we need Active Leasequery?

- People want to know what the DHCPv6 server knows, and they want to know it in near real-time.
- Our customers keep writing extensions to do this themselves (and not getting it *quite* right).
- Alternatives certainly exist (e.g., database access to DHCPv6 server's database), but difficult to standardize, not always available.
- Possibly useful to standardize an approach? ₅

Related Work

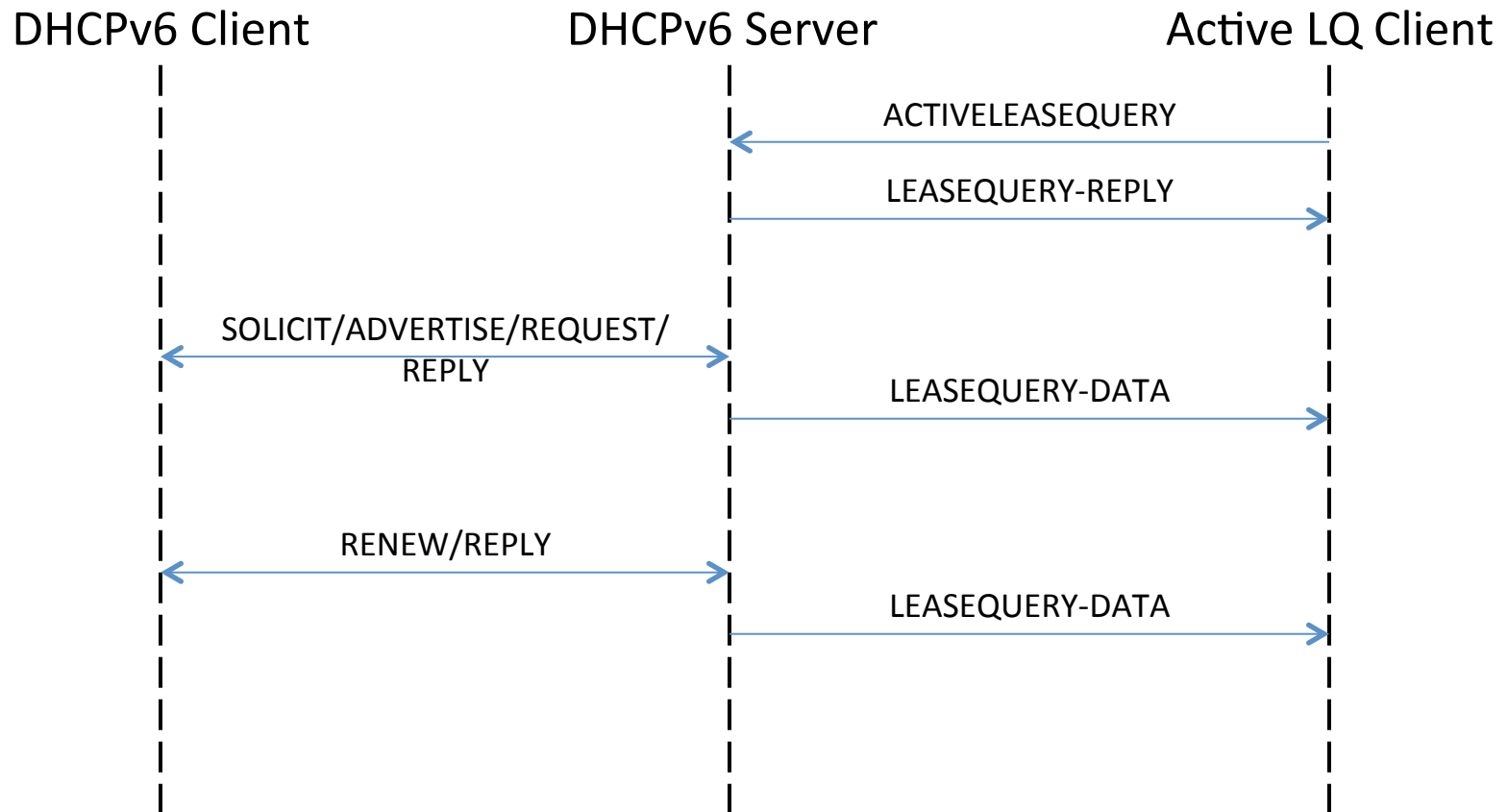
DHCPv4 Active Leasequery

- We have customers using DHCPv4 Active Leasequery today
- Presented DHCPv4 Active Leasequery draft-kinnear-dhc-dhcpv4-active-leasequery-01.txt at IETF77 Mar 2010, IETF79 Nov 2010 and found no apparent interest in adopting it as a DHC WG work item.

How does Active Leasequery work?

- Builds on techniques defined for Bulk Leasequery.
- Client creates TCP session to DHCPv6 server.
- Client sends in Active Leasequery request.
- Server sends response messages (which look like Bulk leasequery messages) until connection is dropped.

How does Active Leasequery work?



Next Steps

