

# Bulk Leasequery for DHCPv4

draft-ietf-dhc-dhcpv4-bulk-leasequery-00.txt

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# History

- Combined existing DHCPv4 Bulk Leasequery drafts from IETF 72:
  - draft-kinnear-dhc-dhcpv4-bulk-leasequery-00.txt
  - draft-dtv-dhc-dhcpv4-bulk-leasequery-00.txt
- Considerable work negotiating a converged draft, all of it on the DHC WG mailing list.
- Several review cycles completed among joint authors.
- Result: draft-kkinnear-dhc-dhcpv4-bulk leasequery-01.txt
- Accepted as DHC WG work item at IETF 73

# New Draft for this IETF

- Numerous editorial changes based on extensive review by Alfred Hoenes.
- Updated draft to use IESG acceptable TCP language pioneered in RFC 5460, DHCPv6 Bulk Leasequery.
- New boiler plate.
- Other minor edits and clarifications.

# Motivation for Bulk Leasequery

- Information Acquisition before Data Starts
- Lessen Negative Caching
- Antispoofing in 'Fast Path'
- Minimize Data Transmission

See Section 4 of draft for more words, email DHC WG list for discussion and clarification.

## How does it work?

- Existing DHCPv4 Leasequery (RFC4388) style query and responses
- Multiple responses to single query
- Uses TCP and frames existing messages
- Several new query types
  - relay-agent relay-id
  - relay-agent remote-id
  - start and end time
- Adds additional information necessary to properly interpret data

# Next Steps

- Go to WG Last Call
- Find two or three people (if possible) to give draft additional detailed review during Last Call. Alfred's review certainly qualifies as one.

# Motivation for Bulk Leasequery

- Faster full or partial recover after relay agent reboot
  - Reduces need for on-demand Leasequery when unknown IP address seen
  - Time-based queries allow recovery of changes since last commit to stable storage
  - Use of TCP supports large and high performance data flows