DHC Load Balancing Algorithm for DHCPv6

draft-ietf-dhc-dhcpv6-load-balancing-01

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Status

- Originally proposed as an Individual draft in Oct 2012

- Adopted as a WG item after 3 more drafts in Nov 2012

- Passed WGLC in Feb 2013

- Comments made by the document shepherd, and I let the ball drop

- Reviving the draft with an -01 publication in Feb 2014

Quick Summary

- Take RFC 3074 and apply it to DHCPv6

- Use the DUID instead of MAC Address for input to the hashing algorithm

- There was a suggestion to change the hash from Pearson to FNV1a. Further analysis showed that Pearson outperformed FNV1a both in a more even distribution, and cheaper computationally. Thus we stay with Pearson.

Changes from -00

- More explicit handling cases for each message type

- Expanded Leasequery handling

- Notes on how Load Balancing fits with Failover, and how Load Balancing is not Failover

- Added Triggered Reconfiguration (RFC 6977) since is has been published in the meantime

Open Issues

- No remaining open issues

Next Steps

- Since there has been no comment since publishing the -01 draft, I would ask to move this to another WGLC.

- We also need 5 volunteers to review the document (beyond the normal "I support" declaration)