DHCP and DHCPv6 Options for Port Control Protocol (PCP)

draft-bpw-pcp-dhcp-03

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Agenda

- Rationale
- Status
- Next steps

Rationale

- Purpose: Provision the PCP Client with its PCP Server

- Both DHCP and DHCPv6 Options are defined

- Both IP Address and NAME options have been considered, but only the NAME option is selected; mainly for operational considerations
  - Arguments are similar to the DS-Lite Option
    - E.g., Allow two levels of indirection (National and Regional levels)
  - May also be used for load-balancing purposes between PCP-controlled NAT64 devices

- DNS-indirection (e.g., SRV) has been considered but has been abandoned
  - Discussed in the mailing list
  - Conclusion: Keep the procedure simple

Rationale (Cont'd)

- The NAME conveyed in the PCP DHCP Option will be resolved using DNS A Queries
  - Is there any valid use case requiring to issue AAAA Queries to resolve the IP address of the PCP Server (reachable from an IPv4 host)?

- The NAME conveyed in the PCP DHCPv6 Option will be resolved using DNS A and/or AAAA Queries
  - RFC3484 address selection will be followed

Status & Next Steps

- All received comments have been covered
- What is the next step for this I-D?