DHCP and DHCPv6 Options for Port Control Protocol (PCP)

draft-bpw-pcp-dhcp-03
IETF 80-Prague, March 2011

M. Boucadair, R. Penno, D. Wing
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?