

PCP Server Discovery Based on Well-Known Address

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Problem Statement

- Before any PCP messages are exchanged, how does a PCP Client discover the address of the PCP Server?
- Follow up: How can PCP be deployed?

Current Proposed Methods and Issues

- Default router
 - Good but PCP Server might be more than one hop away or not necessarily the default router on the LAN.
- DHCP Option
 - Requires updates to DHCP Server, some DHCP clients and, in the case of broadband deployments, CPE to pass option to client.
 - Some networks do not use DHCP
- DNS
 - Requires updates to DNS Server and DNS clients determining the domain name of where PCP Server is located.

Proposed solution

- Anycast address
 - Almost no dependency on network configuration or operator
 - Works out of the box
 - Application and PCP Client friendly
 - Built-in Redundancy

Finer Points

- Multiple PCP Servers, Symmetric Routing
- Multiple PCP Servers, Asymmetric Routing
 - New ANNOUCE option proposed