

PCP Anycast Address, IETF-91

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draft-ietf-pcp-anycast-02

- New version 2014-08-25
- Clarify usage of IPv4/IPv6 anycast address:
 - The PCP client SHOULD select the PCP anycast address to be of the same IP address family as its requested PCP mapping, i.e., the address family of the Requested ~~External~~ Internal IP Address.
- Section on retransmission timers reworded
 - Basically follows the draft on PCP server selection, but does not reference it
 - Default gateway or configured PCP server will always be tried first, anycast only after 4 retransmissions

Action items from WGLC

- Create a dependency on server selection draft
- Remove appendix
- Fix grammar
- Remove PCP Server option to return list of unicast addresses

Action items from WGLC

Updates RFC6887, section 8.1 (discovering PCP Servers)?

“Prior to sending its first PCP message, the PCP client determines which server to use. The PCP client performs the following steps to determine its PCP server:

1. if a PCP server is configured (e.g., in a configuration file or via DHCP), that single configuration source is used as the list of PCP server(s), else
2. the default router list (for IPv4 and IPv6) is used as the list of PCP server(s). Thus, if a PCP client has both an IPv4 and IPv6 address, it will have an IPv4 PCP server (its IPv4 default router) for its IPv4 mappings, and an IPv6 PCP server (its IPv6 default router) for its IPv6 mappings.”

Proposed Wording: Update draft to say it updates RFC6887 and include wording on which order Anycast should be tried (3). One wrinkle: If DHCP Server includes anycast address in PCP DHCP Option, then it is tried as per RFC6887.

Action items from WGLC

Possible Attack: Rogue PCP Servers announces Anycast address?

A rogue PCP server could advertise Anycast address

Security considerations proposed wording:

In a LAN PCP Client will ARP for default gateway which is not rogue PCP Server

End-host does not run routing protocols.

Routers will not accept advertisement from untrusted peer.

Use PCP authentication