PCP Server Discovery in IPv6 Multihoming

draft-reddy-pcp-server-discovery

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PCP broken with Multi-Homing

MultiHomed Host

Traffic Flow

Firewall + PCP Server 1

PCP Req

Firewall + PCP Server 2

ISP-A

ISP-B
GOAL

• Discover all PCP servers in a Multihoming environment e.g., there may be a PCP server integrated into every firewall device connecting to each network.
• Not yet achievable.

MECHANISM

• PCP client sends a PCP DISCOVER request to a multicast group.
• Each PCP server responds to the PCP DISCOVER request.
• PCP client sends regular unicast PCP request messages (e.g., PEER or MAP OpCodes) to each discovered PCP server.
PCP Client

PCP Server-1

PCP Server-2

PCP DISCOVER Request to Multicast

PCP DISCOVERY Response

PCP DISCOVERY Response

PCP MAP/PEER Request

PCP MAP/PEER Request

PCP MAP/PEER Response

PCP MAP/PEER Response
Or ...

• Use Naming and Service Discovery from HOMENET?