NAT-PMP PCP IWF

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Open Questions (1)

- Obviously simple IWF should be renamed ‘relay’, a proposal for the smart IWF?
- Current proposal, applied to these slides: *relay* and *proxy*
- Solved?
Plan

• What is it
• Public address requests
• Open Questions
What is it (1)

- NAT-PMP InterWorking Function:
  - NAT-PMP clients on internal hosts
  - PCP Server somewhere
- NAT-PMP relay (NAT-PMP is LAN only)
- NAT-PMP proxy (required one in the home domain, integrated in an UPnP IGD IWF / PCP Proxy)
What is it (2)

- Similar to simple/smart PCP Proxy
- Straightforward NAT-PMP new port mapping / PCP MAP message translation
Public Address Requests

• Only a NAT-PMP proxy can generate the response from its state

• A NAT-PMP relay forwards the request to the NAT-PMP proxy of the home domain:
  • a relay is required by LAN with NAT-PMP clients but without a proxy
  • a proxy is required on the home domain
  • the state of a relay is limited to what is needed to forward back response to clients
Open Questions (2)

• draft-woodyatt-spnatpmp-appl-01.txt specified a new error code for NAT-PMP

• should IWFs use it?

• note we want a policy which will be applied to all NAT-PMP PCP IWF implementations