

Port Control Protocol (PCP) Proxy Function

draft-bpw-pcp-proxy

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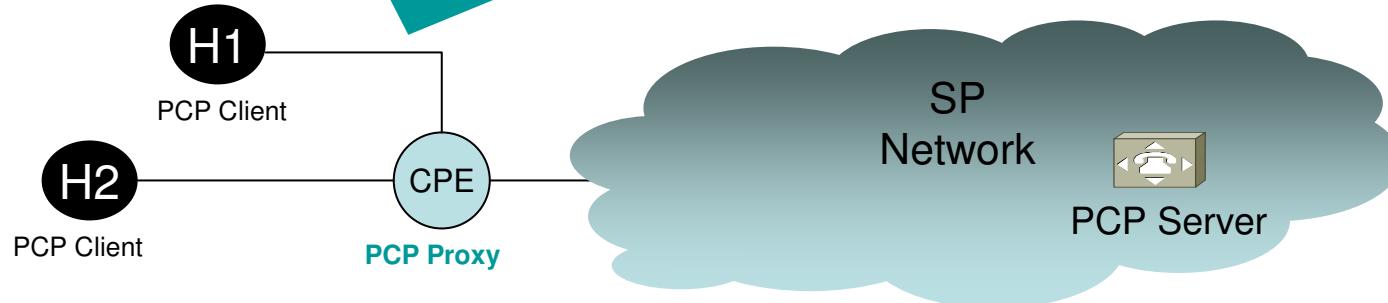
Problem

1. How to discover the PCP Server?
2. What if there is a FW enabled in the CPE?
3. What if a NAT is enabled in the CPE?



Solution

1. Enable a PCP Proxy in the CPE
2. The PCP Proxy is used as PCP Server
3. The PCP Proxy interacts with a FW and/or NAT if present
4. The PCP Proxy relays PCP messages



PCP Proxy Functions: Examples

- Relays PCP messages between a PCP Client and the ultimate PCP Server
- Check THIRD_PARTY Option
- Create corresponding firewall entries and/or NAT mappings when required
- Update the PCP Request/Response with the information maintained in the NAT
- Epoch Handling
- Adjust Lifetime

Open Questions

- Multiple servers
- Epoch handling
 - Maintain a local Epoch or
 - blind copy of the one returned by the PCP Server
- Local caching, e.g.,
 - Mappings
 - Errors received from the PCP Server
- What to do for unsupported OpCode/Options
 - Ignore or
 - Blind relay
- Other points are discussed in the draft

Next Step

- Make progress the specification of the PCP Proxy