RADIUS extensions for PCP

draft-maglione-pcp-radius-ext-02

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Motivations

- *draft-bpw-pcp-dhcp* defines DHCP and DHCPv6 options which can be used to provision a PCP Server reachability information (FQDN of a PCP Server)

- In a broadband network, customer information is usually stored on a AAA/RADIUS server and DHCP/DHCPv6 is used to populate user's configuration information

- This document specifies a new RADIUS attribute to carry FQDN of a PCP server

- A similar approach for provisioning the FDQN of the AFTR is already defined for DSLite in *draft-ietf-softwire-dslite-radius-ext*
DHCPv6 based PCP Configuration

DHCPv6 ( .. Option_PCP_Server )

DHCPv6 ( … Option_PCP_Server )

RG

PCP Client

DHCPv6 Client

NAS

DHCPv6 Server

PCP Server
RADIUS + DHCPv6 based PCP Configuration

NAS translates PCP-Server-Name Radius Attribute into DHCPv6 option

User profile:
Username pwd Delegated-prefix ...
PCP-Server-Name
The PCP-server-name attribute contains a Fully Qualified Domain Name (FQDN) that refers to a PCP server the client requests to establish a connection to for PCP related service.

The NAS shall use the name returned in the RADIUS PCP-server-name attribute to populate the PCP Server FQDN DHCP Sub-Option in IPv4 addressing context, or the PCP Server FQDN DHCPv6 Option in IPv6 addressing context.
Changes

- **00**: initial draft
- **01**: refresh of the draft with no change
- **02**: this version integrates the comments received from Mohamed Boucadair
Questions?