DHCP Options for the Port Control Protocol (PCP)

draft-ietf-pcp-dhcp
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M. Boucadair, R. Penno & D. Wing

Presenter: J. Queiroz
Main Changes: Flashback

- **draft-bpw-pcp-dhcp**
  - Defined both an IP-Address and FQDN Options
  - Only FQDN option was maintained after discussion in the mailing list
  - Text added to the document to explain the rationale

- **IETF#81**
  - draft-bpw-pcp-dhcp adopted as WG
  - Consensus on maintaining the FQDN option
  - To the question raised by the authors “Is PCP name strictly an FQDN, or a general string such as can be passed to getaddrinfo? e.g. is "10.0.0.1" address literal allowed?”
    - Consensus: Yes, general strings such as can be passed to getaddrinfo, including address literals.

- **draft-ietf-pcp-dhcp-01**
  - Integrate all comments received from B. Voltz and T. Lemon
Main Changes: Flashback

- **draft-ietf-pcp-dhcp-02**
  - Integrate comments received from D. Thaler (e.g., use “Name” instead of FQDN, add a paragraph about multi-interface issues, add a procedure to select an IP address of the PCP Server, etc.)

- **draft-ietf-pcp-dhcp-03 LCed in dhc and pcp**
  - Multiple option approach was abandoned and a space character is used to separate names

- **IETF#84**
  - Main discussion points were raised in Vancouver (see the minutes)
  - “When RFC1035 is used to encode the name, encoding IP literals will result in being decoded as a domain name (e.g., "1.2.3.4.") How to solve this?”
  - “Consensus: just use plain strings like the existing DHCP "domain" option, no RFC1035-encoding for any names”
Main Changes: Flashback

- **draft-ietf-pcp-dhcp-05**
  - Integrates the changes agreed in the Vancouver meeting (e.g., abandon RFC1035 encoding, remove the text about server selection, etc.)

- **draft-ietf-pcp-dhcp-05 WGLC**

- **IETF#85**
  - The WG advice is to consult with T. Lemon how to encode multiple string: maintain the space character or use length-encoded

- **draft-ietf-pcp-dhcp-06**
  - After checking with T. Lemon, a length-encoded approach is used instead of using space character to separate name
  - Integrate all comments received in the WGLC
  - T. Lemon questioned the use of UTF-8 encoding
    - Authors reported the issue in the mailing list to seek for advice
    - Add new text to explain the motivation and rationale for the encoding design choice
Open Discussion

• The document reflects the WG consensus
  – It is not over-specified to be DNS-centric
• The document has been cross-wg reviewed
• The same question is raised each time there is a request for review: *Why not an IP Address?*
  – This question has been answered several times
  – There is a consensus in the WG
• Need to move the document forward