

DHCP Options for the Port Control Protocol (PCP)

draft-ietf-pcp-dhcp

IETF 86-Orlando, March 2013

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