DHCP options for PAA

draft-ietf-dhc-paa-option-02.txt

Lionel Morand
(lionel.morand@francetelecom.com)

IETF-65, Dallas
Summary

• Defines new DHCP options to locate PAAs in the access network
  – DHCP server provides clients with either:
    • A list of PAA domain names
    • Or a list of PAA IP addresses

• Approved as WG document in DHC WG
Change from -00

- Common draft for both DHCPv4 and DHCPv6 options
  - Based on request from the DHC WG chairs
- Defines two new DHCPv6 options:
  - OPTION_PAA_AGENT_D
    - Providing PAA domain name list
  - OPTION_PAA_AGENT_A
    - Providing PAA IP address list
- Defines DHCPv6 client/server behavior
Change from -01

- Re-definition of the DHCPv4 option
  - specified as a "container" of "sub-options"
    - Instead of using encoding rules
  - Two defined sub-options
    - PAA IP Address List
    - PAA Domain Name List
  - Clarification of the DHCPv4 client/server behavior

<table>
<thead>
<tr>
<th>Code</th>
<th>Len</th>
<th>PAA Information Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>+    +</td>
<td>+</td>
<td>-----------------------</td>
</tr>
<tr>
<td>TDB</td>
<td>N</td>
<td>i1</td>
</tr>
<tr>
<td>+    +</td>
<td>+</td>
<td>-----------------------</td>
</tr>
</tbody>
</table>

Figure 1: DHCPv4 option for PANA Authentication Agent

<table>
<thead>
<tr>
<th>SubOpt</th>
<th>Len</th>
<th>Sub-option Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>+</td>
<td>+</td>
<td>------------------</td>
</tr>
<tr>
<td>TBD</td>
<td>N</td>
<td>s1</td>
</tr>
<tr>
<td>+</td>
<td>+</td>
<td>------------------</td>
</tr>
</tbody>
</table>

Figure 2: Encoding of of PAA Information field

IETF-65, Dallas
Open "issue": use of FQDNs

• Current status:
  – DHCP server may provide IP@ or FQDNs
• Issue: Are unauthenticated host able to reach DNS server?
• Proposed solution:
  – It's only a network configuration matter
  – Don't close the door to the use of PAA FQDNs!

IETF-65, Dallas
Next Step

- No other issue
- Ready for WGLC (?)
Thank You