Virtual Subnet Selection Options for DHCPv4 and DHCPv6

draft-ietf-agent-vpn-option-12.txt

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History | Status

- About a year ago, IESG review, 4 DISCUSS, lots of comments

- Responded to all issues in email at that time (but no indication it made any difference).

- New draft Oct 22, 2010, list of changes sent to WG mailing list.

- One substantive change, many textual changes.

Longstanding Problem

- RFC 3046 says DHCPv4 server must "copy all sub-options from incoming to outgoing packet" whether or not it understands them.

- Thus, DHCPv4 relay agents could not tell if DHCPv4 server honored requests appearing in sub-options, as VSS sub-options would appear in outgoing packets no matter what.

Solution

- Additional VSS type of CONTROL defined. Now DHCPv4 relay agents send in **two** relay-agent-information sub-options:

  1. **Valid VSS information (VRF name or RFC 2685 VPN-ID)**
  2. **Type: CONTROL, length of 1**

- DHCPv4 server that understand VSS sub-options will always remove VSS sub-option with type CONTROL (i.e., never place CONTROL sub-option in outgoing packet). Thus, relay agent can easily tell if server understood the request.

Next Steps

Ted said we need another WG last call.

- Again -- It needs people to READ it and either support it or not!

- You do NOT have to send in three pages of review comments!

- You just need to read it, and think about it, and say that you think it is worth moving forward. You do NOT have to "review" it.

- Thanks!