DHCPv6 suboptions IETF83

draft-mrugalski-dhc-dhcpv6-suboptions-03

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Motivation

- RFC3315 defines how to request options:
  - send ORO
- RFC3315 does not define:
  - how to request sub-options
- Goal: One page clarification draft

Previous proposed solutions

1) Include ORO in message, request options on any levels

    + maintain current status quo

     - all requests are global

2) Include ORO instance in each requested scope

    + possible per instance granularity
      (e.g. request one IA_PD with PD_EXCLUDE and one without)
    + good server scalability when more options are defined

    - requires some implementation on server

    - interoperability concerns
    - problem: What if client sends ORO as suboption and server does not support it?

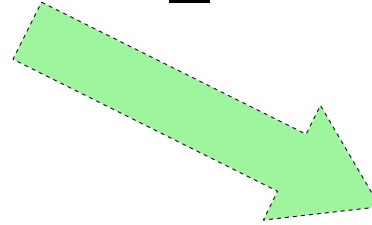   Recommendation from last meeting: unified approach

Proposed approach

Client requests SUBOPT_ORO

Did server respond with SUBOPT_ORO?

No

Yes
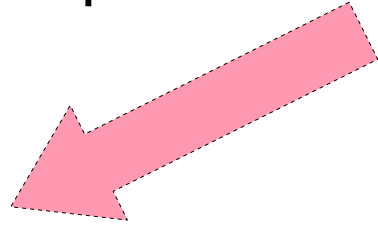
single ORO, top level
(as usual)

Single ORO, top level
for options that should
appear everywhere

Put ORO as sub-option
for options that should
appear only in one
instance

Next Steps

- Accept this approach? => Adopt?

- Propose yet another approach? Volunteers?

- No consensus? => Drop the work?

Thank you