On the Dynamic/Automatic Configuration of IPv6 Hosts
(draft-gont-v6ops-host-configuration-01)

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Problem Statement

- Two possible ways to configure DNS info:
  - SLAAC RDNSS
  - DHCPv6
- Unfortunately:
  - Different major client OSes lack support for one or the other
  - Different major router implementations lack support for SLAAC RDNSS
- DNS configuration ends up relying on... DHCPv4
Problem Statement (II)

- We want to be able to:
  - NOT rely on IPv6 for DNS configuration
  - Be able to run an IPv6-only network that supports all major client OSes

- We care about the **outcome, not** about which specific protocol ends up being employed
What's in the current specs

- RFC 6434 (Informational):
  - Require support for SLAAC RDNSS
  - Support of stateless DHCPv6 for DNS is optional

- RFC 7084 (Informational):
  - Requires support for DNS configuration via SLAAC and DHCPv6 in IPv6 CE routers
What our I-D does

• Describes the problem
• Formally requires support in hosts for:
  – SLAAC RDNSS
  – Stateless DHCPv6
• Formally requires support in routers for:
  – SLAAC RDNSS
Comments?