SLAAC/DHCPv6 conflicts diagnostic during site renumbering (draft-liu-ipv6-renum-conflicts-00.txt)

RFC5887 suggests DHCP-managed hosts to have the ability of learning prefix information from RAs. The RAs received by DHCPv6-managed hosts may be:

-Planned renum messages or indicating new uplink(s)

-(Misbehavior) a sub-net of DHCPv6-managed site is mis-configured to run SLAAC

-(Misbehavior) wrong renum messages

We suggest to report the event as potential conflicts

-Host has not enough intelligence/information to fully determine whether it is real conflicts, but report (host can make some imperfect determination of conflicts, TBD)

-Reporting to DHCPv6 Server though new DHCPv6 option is a candidate

Other potential conflicts (need further exploration)

-SLAAC-configured hosts may start DHCP configuration when "M" flag was set in new received RAs

- DHCP server (s) response with address whose prefix is different from the one in RAs (it is conflict if the prefix given by DHCP does not indicate another uplink)
- there is no DHCP Server response, implying "M" flag was mis-set, or DHCP is down