

# Clarifying Handling of M & O Flags of IPv6 Router Advertisement (draft-cha-ipv6-ra-mo-00.txt)

Joseph H. Cha  
Samsung Electronics  
Bernie Volz  
Cisco Systems

# Problems

- No method to revoke the operation of a DHCPv6 client invoked by M or O flag of IPv6 Router Advertisement
- No considerations regarding inconsistent M & O flags advertised by different routers.

# Suggestion [1]

- An Algorithm for the Management of Internal State Variables (ManagedFlag, OtherConfigFlag)
  - An RA with the M(O) flag set makes M(O)–timer start or restart. While M(O)–timer does not expire, the ManagedFlag(OtherConfigFlag) remains TRUE. Otherwise, the variable is set to FALSE.
  - Lifetime = 3 times of MaxRtrAdvInterval[RFC4861]
  - Flags information with source address may give faster transition of variables and potential advantages.

# Suggestion [2]

- Choices for revocation of a DHCPv6 client
  - To let a DHCPv6 client determine whether the client should keep its operation or not depending on state variables.
    - Before sending a Solicit or Information-Request
  - Revoke the operation of a DHCPv6 client immediately.