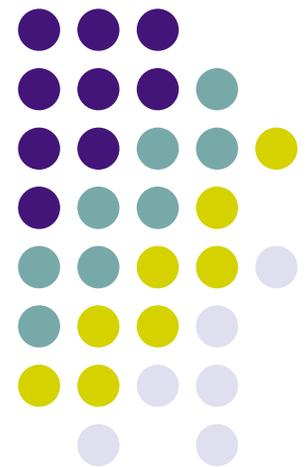


IPv6 RA Options for Next Hop Routes

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IETF 87



draft-sarikaya-6man-rfc4191bis-00

RA Route Option

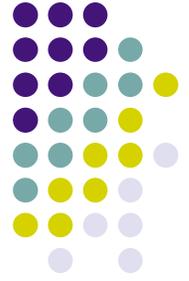
Motivation



- RFC 4191 defines Route Information Option
- There has been a lot of changes since then in the way we use the networks
- Different scenarios exist now that did not exist before:
- Smart phones with multiple interface connectivity
- The node may also be connected to more than one gateway
- realized by means of dedicated physical or logical links such as VPN access

RA Route Option

Motivation - Continued



- RFC 4191 defines Route Information Option
- Prf field is to prefer the router associated with this IPv6 destination prefix
- Next hop address is missing
- Next hop address metric is missing
- So we need 4191bis



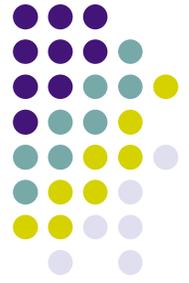
RA Route Option

Motivation - Continued

- **Source Address Based Routing Considerations**
- This problem happens when ingress filtering is used
- Router may indicate source addresses/ source prefixes subject to ingress filtering
- So the host can avoid these addresses with this router
- We present RA based solution
- **So we need 4191bis**
-

Proposed RA Options

- **Details are in the draft**
- **Sections 7 through 13 define these new RA options**



Next Steps

- Please read and comment

