

# draft-yc-v6ops-solicited-ra-unicast

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# Problem scenario

- Wifi network with hundreds/thousands of mobile clients
- Every device that joins the network sends an RS
- Network responds with multicast RA which wakes up all devices on network
- If network is large enough, multicast RAs are sent every 3 seconds (MIN\_DELAY\_BETWEEN\_RAS, RFC 4862)
- Battery life takes a nosedive

# Observed device behaviours

- Experience bad battery life
- Drop all IPv6 multicast packets when screen off
- Drop all IPv6 packets when screen off
- Rate-limit RA packets in firmware

# Recommendations

1. Router manufacturers SHOULD allow network administrators to configure the routers to respond to Router Solicitations with unicast Router Advertisements.
2. Networks that serve large numbers (tens or hundreds) of mobile devices SHOULD enable this behaviour.

# Questions

- Adopt as WG document?