OLSRv2 Update
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-13 to -14 Highlights

- Co-existence OLSRv2+NHDP and NHDP
- Allowing anycast addresses
- As usual: nit-picking and editorials
OLSRv2+NHDP & NHDP Co-existence

- Some MANET routers run one single OLSRv2 instance:
  - OLSRv2 interfaces, non-OLSRv2 MANET interfaces
- HELLO message on OLSRv2 interface MUST:
  - Include MPR_WILLINGNESS TLV:
    - Enables identifying if neighbor interface runs OLSRv2
  - Include METRIC TLV when advertising OLSRv2 neighbors:
    - Enables identification of OLSRv2 1-hop and 2-hop neighbors
    - Only OLSRv2 routers are used by other OLSRv2 routers
Allowing Anycast Addresses

• Appear as any other destination address in topology graph

• Anycast addresses can be a routable address

• Anycast address can not be originator address, as these must be unique to a router
-11 to -13: Metrics History ...

- draft-dearlove-olsrv2-metrics-00, July 2007
  - "This is why and what ...."
  - "This is how we suggest doing ...."

- Discussions, feedback, refinement, consensus

- draft-dearlove-olsrv2-metrics-05, June 2010

- draft-ietf-manet-olsrv2-12, July 2011 (With metrics)

- draft-ietf-manet-olsrv2-13, October 2012 (With clean-up)
 Metrics, in short

- Metrics are directional, incoming and outgoing
  - Incoming is defined by receiver of HELLO
  - Incoming:
    - Advertised in HELLO messages
    - Used for routing MPR selection
  - Outgoing:
    - Advertised in TC messages, used for route calculations
    - Advertised in HELLO messages:
      - Enables use for flooding MPR selection
      - Enables use of HELLO message provisioned 2-hop routes
What's Next?

- We're done:
  - WGLC hereby requested!
Metrics, in short

Source

Routing MPR
Sends TC message

Advertised Routing MPR Selector

Destination