

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

