

# MANET Neighborhood Discovery Protocol

66<sup>th</sup> IETF, July 2006, Montreal

# Status

- Extracted from OLSRv2
- Initial version post-65<sup>th</sup> IETF:
  - `draft-clausen-olsrv2nd-00.txt`
- Published as WG document 66<sup>th</sup> IETF:
  - renamed as neighborhood discovery protocol
  - `draft-ietf-manet-nhdp-00.txt`

# Relationship within MANET

- Uses `draft-ietf-manet-packetbb`
- Building-block for OLSRv2 and SMF
  - boundaries not set in stone (e.g. validity time TLV)

# Goals

- Advertisements to neighbors
- Bidirectionality test of links
- Collect neighborhood information
  - 1-hop neighbors & 2-hop neighbors
- Multiple interface support
  - improved from RFC3626

# Information Base

- HELLO signaling
  - proactive, timer-based
- Builds, in each node, neighborhood information base:
  - link-set
  - symmetric neighbor set
  - neighborhood address association set
  - 2-hop neighbor set

# Information Base Usage

- Sufficient to select MPRs and other CDS types
- Signaling using additional TLVs as appropriate
- For MPRs: see `draft-ietf-manet-OLSRv2`

# The Future

- Needs editorial pass
- Improved link sensing
- New & intermediate versions:
  - <http://olsrv2.online.fr/blog>
- Issue-tracker:
  - <http://olsrv2.online.fr/bugtrack>