QuickTime™ and a
TIFF (Uncompressed) decompressor
are needed to see this picture.
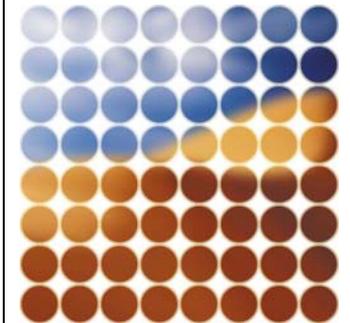
Dynamic MANET On-demand Routing Protocol

DYMO-06

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Changes DYMO-06

- PacketBB naming & TLVs

- Packet diagram nits

- Removed some items that had little interest

- Administrative model for future MIB document

- Checking routing information freshness…

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DYMO-06
Checking routing information freshness

- When routing information is received, it is compared with the information in the routing table

- Sequence Number, Hop Count, Valid/Invalid, RREQ/RREP

- Information categories
  - Stale
  - Loop-prone
  - Inferior
  - Superior

- See DYMO-06 for descriptions & pseudo-code

DYMO-06 Timeouts

- Explicit events with clear state changes
  - MIN_AGE
  - MAX_AGE
  - NEW
  - USED
  - DELETE

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DYMO-07-pre
Intermediate RREP

- Intermediate node replies in DYMO-07

- RREP behavior at intermediate is simple

- Avoiding incrementing of OwnSeqNum at the RREQ TargetNode when issuing RREP is tricky

  - If the RREQ TargetNode does not increment OwnSeqNum, then an intermediate node might not consider the information superior, causing a blackhole effect

  - To remove the blackhole situation, an intermediate node will send a message to the RREP originator (RREQ TargetNode) that the RREP routing information was not superior, and that the RREQ TargetNode should then increment OwnSeqNum

- Must preserve non-mutable DYMO messages

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are needed to see this picture.

Open Discussion

Questions & Comments

http://moment.cs.ucsb.edu/dymo

Implementation Issues

https://lists.sourceforge.net/lists/listinfo/aodvimpl-public