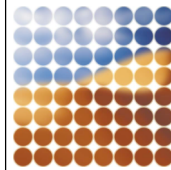# Dynamic MANET On-demand Routing Protocol

IETF 64 DYMO-03

Ian Chakeres

Elizabeth Belding-Royer
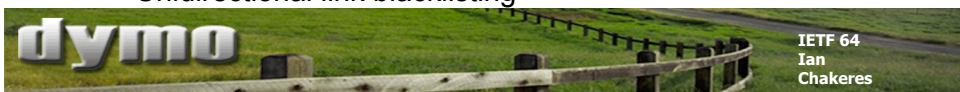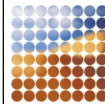
Charlie Perkins

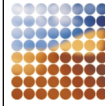Ian Chakeres

Changes DYMO 02->03

- Route updates
    - Current routing information
    - Sequence number
    - Hop count
- Path accumulation
    - SHOULD changed to MAY
    - Continued examination…
- RERR generation recommendation
- S-bit
    - Packet solicitation
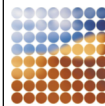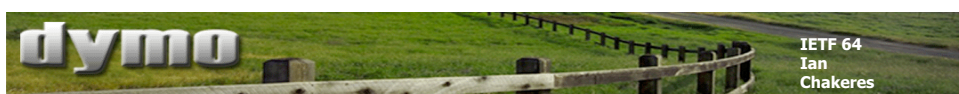   - Unidirectional link blacklisting

DYMO-04-pre

- RERR dissemination decision
- 16-bit sequence numbers
- Remove UERR
- Common packet structure
  - Simple, extensible, compact
  - Perhaps provide commonality and/or compatibility between MANET protocols

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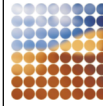Chakeres

Short Term Work Items

- Message structure
- Implementation experience
  - Tradeoffs
  - Default parameters
  - Path accumulation
  - Difficulties, ambiguities, etc.
- Extensions, improvements, optimizations - please consider
- **Please contact me if you are interested in reviewing, implementing, or testing DYMO - ian.chakeres@gmail.com**

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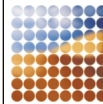Chakeres

DYMO for 6lowpan

draft-montenegro-6lowpan-dymo-low-routing-00.txt

- Only destination replies to RREQ - TargetSeqNum assumed to be zero
- No path accumulated information appended or propagated
- Link layer feedback for link break detection
- Ignore RE messages received with low signal strength using IEEE 802.15.4 LQI
- Long route timeout
- Remove unused routing table entries as needed
- Various packet format simplifications
- **No change to basic DYMO protocol operation**
- Please comment and bring up any issues for dymo or dymo-low on list, email me or other authors

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DYMO Discussion

Questions & Comments

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

Implementation Issues

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

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