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Overview

- Implementation status on RIOT
- Implementation status on Linux
- Issues raised
- Source code sharing
- Next steps

Implementation Status

- RIOT [R(eal-time) IoT] project at Freie Universität
  - ”The friendly Operating System for the Internet of Things.”
  - http://www.riot-os.org/
- Plan for code running on RIOT by Christmas
- RIOT user space has direct access to kernel
- RFC 5444 code running on RIOT (oonf API port)
- RREQ, RREP packets – being revised now

Linux implementation status

- Plan for code running on Ubuntu by Christmas
- Kernel interface via /dev/net/tun
  - Spent a long time messing with netlink interface
- Taking RFC 5444 code from RIOT (oonf api port)
- Hope to run on many modern versions of Linux
- Currently building on Ubuntu
  - Should work on all Fedoras since version 12
  - Haven't tried other systems, but will do for any system that has freeware downloadable ISO file

Issues raised: Issue #10

- #10 Reporting multiple broken routes whose metric types are different

Would save bytes over the air

Would require multiple Metric-Type message TLVs, one per addrblk

Issues raised: field names

- Suggestion: make naming in document consistent with RFC 5444
- Problem with description of “tail” bytes.

Other issues

- Some were raised by Sue Hares, need to check that these all were resolved.
- Any others?

Sharing

- Github and bitbucket repositories set up
- Not at all suitable yet for general consumption
- If interested, please contact me for more information.
- Open source available after it's working.

Next Steps

- Interoperable implementations by Christmas
- Next draft revision within three weeks
- MPR integration (or other CDS)
- NS-2 Simulation
- NS-3 Simulation
- Possible integration with AODV-UU code
  - Run AODV2, OLSR and AODV in same network?