

Jitter, PacketBB, TimeTLV, NHDP & OLSRv2 Update

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draft-ietf-manet-jitter

- Document Status
 - published as RFC 5148 (February '08)

draft-ietf-manet-packetbb

- Document Status:
 - IESG Evaluation::Revised ID Needed (-11)
 - Revised ID submitted (-12)
- Main Changes in -12:
 - Addressing IESG, GEN-ART suggestions:
 - Notation, encoding, bit-flag polarities
 - Padding removed, “intended usage”
 - Editorial

draft-ietf-manet-timetlv

- Document Status:
 - IESG Evaluation::Revised ID Needed (-04)
- Received some comments
 - straight-forward to address, in progress
- Awaiting progress on draft-ietf-manet-packetbb

draft-ietf-manet-nhdp

- Document Status:
 - WGLC (-05) ended Feb. 3
 - Revised ID submitted (-06)
- Main Changes in -06:
 - Compatibility with packetbb-12
 - WGLC suggestions:
 - Editorials

draft-ietf-manet-olsrv2

- Document Status:
 - Revised ID submitted (-05)
- Main Changes in -05:
 - Compatibility with packetbb-11, nhdp-05
- Forthcoming in -06:
 - Compatibility with packetbb-12, nhdp-06

jOLSRv2

packetbb, nhdp, olsrv2

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Overview

- Complete implementation:
 - draft-ietf-manet-packetbb-11
 - draft-ietf-manet-nhdp-05
 - draft-ietf-manet-olsrv2-05
- Independent Java Projects:
 - platform independent
 - libraries, easy API, extensible
 - complete JavaDoc documentation

packetbb

Implementation

- Email-interop
 - exchanged packet-dumps, parse
- Independent Library
- Example-usage:
 - `message.getAssociatedAddresses(LOCAL_IF, OTHER_IF)`
 - `message.getAssociatedAddresses(LOCAL_IF)`
 - `address.getAssociatedTlvs()`

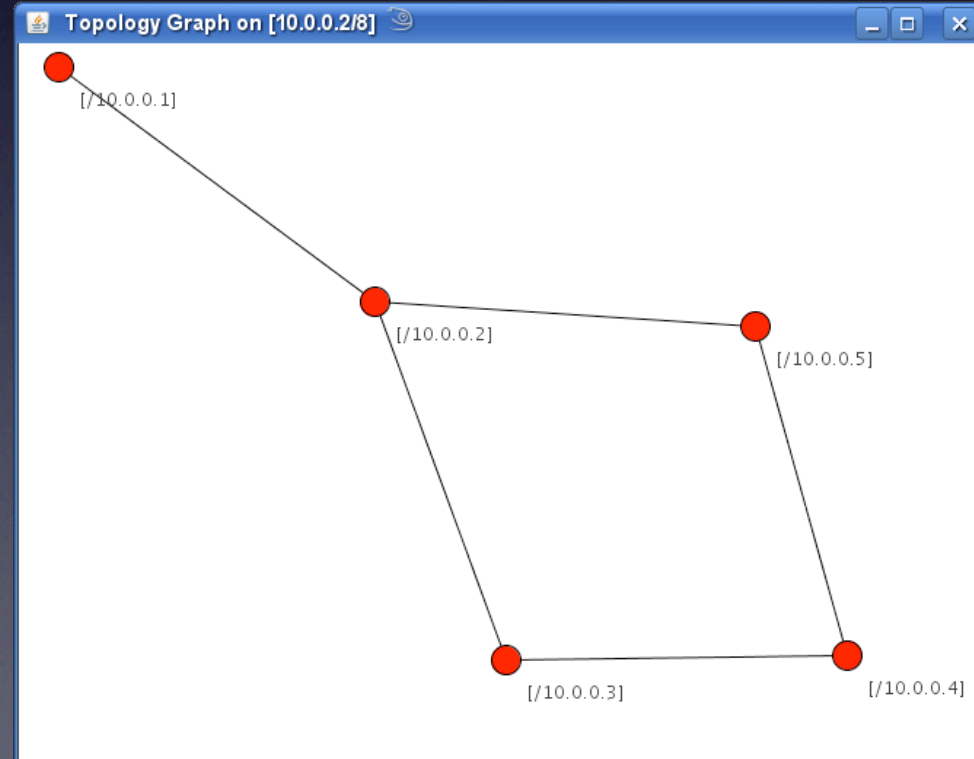
NHDP

Implementation

- Uses packetbb library
- NHDP component, accessible via RMI for visualisation / configuration

The screenshot shows the configuration interface for nhdp on a host with IP 10.0.0.2/8. The interface is organized into several sections:

- Actions:** Contains configuration for Neighbor Sets (e.g., 10.0.0.1, 10.0.0.3, 10.0.0.5) and Originator Sets.
- Local Face Set:** Shows the local interface configuration (wlan0).
- Routing Set:** Displays routing entries for destinations 10.0.0.1, 10.0.0.3, and 10.0.0.5.
- Topology Set:** Shows the network topology configuration.
- Link Set (wlan0):** Displays link-specific parameters.
- Used Interfaces:** Shows the configuration for the wlan0 interface.
- Available Interfaces:** Lists other available interfaces like eth0 and wlan1.
- Parameters Table:** A table of various parameters such as Willingness, N_HOLD_TIME, L_HOLD_TIME, O_HOLD_TIME, TC_INTERVAL, TC_MIN_INTERVAL, T_HOLD_TIME, A_HOLD_TIME, P_HOLD_TIME, F_HOLD_TIME, TP_MAXJITTER, TT_MAXJITTER, F_MAXJITTER, RX_HOLD_TIME, HELLO_INTERVAL, HELLO_MIN_INTERVAL, HL_HOLD_TIME, L_HOLD_TIME, HP_MAXJITTER, HT_MAXJITTER, N_HOLD_TIME, and I_HOLD_TIME.



OLSRv2

Implementation

- jOLSR:
 - very little code, inheritance from nhdp
 - OS/machine architecture independent
 - RT manipulation written using API
- In the works:
 - jOLSR-for-ns2

Testbed Example

Research - jolsrv2 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.lix.polytechnique.fr/Labo/Ulrich.Herberg/research/jolsrv2/applet/ Go

Research - jolsrv2 - Inbox

MANET testbed at LIX

On this website you can see the current topology of our testbed, updated every second. You need Java 6 to display the applet.

Block

Applet LookupApplet started