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Overview

- **jOLSRv2** is a Java implementation of the MANET routing protocol OLSRv2 based on:
  - draft-ietf-manet-packetbb-13
  - draft-ietf-manet-nhdp-07
  - draft-ietf-manet-olsrv2-08alpha

- **Independent Java Projects:**
  - platform independent
  - libraries, easy API, extensible
  - complete JavaDoc documentation

- **RMIServer** and corresponding graphical client
Example of the graphical client

- remote connection to OLSR server via RMI (over TCP)
- display of all sets
- add/remove interfaces and addresses, change parameters
- map of the topology from the point of view of the node connected to
ToplogyApplet

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.
Packetbb Applet

Packetbb-13alpha12 test dump

On this website you can parse hex dumps to packetbb packets. You can download an example file here. You need Java 5 or 6 to display the applet and you have to trust the signed applet, otherwise you cannot load dump files from local files. You still can manually enter dumps in the left text area. The parser adheres to the draft-ietf-manet-packetbb-11 version.

See this page if you want to create a packet via a GUI.
Packetbb Applet

- It takes hex dumps of packetbb packets and displays a human-readable output
- Enables for easy interoperability and correctness tests of packetbb implementations
- Tested with Chris Dearlove’s packetbb-11 implementation
Packetbb Creator Applet
Packetbb Creator Applet

- This applet allows for creating a packetbb packet including messages, TLVs, etc. by a simple GUI
- Outputs a hex dump of the packet
jOLSRv2-on-NS2

- NS2 is a discrete-event network simulator allowing for MANET simulations
- It is written in C++ and OTCL
- Problem: jOLSRv2 is written in JAVA
- Solution: Wrapper library called AgentJ