Specification Document for ULMAN GUI v0.1

Communications & Control Functions of the ULMAN

To allow a general management of the testbed, some initialisation files will inform to the different modules of the current configuration. These files will be read and possibly modified by the control console. Thus, the format of the initialisation files must be unique for all the modules

- Time Synchronisation
- Starting Routing protocols
- Stopping Routing Protocols
- Removing routing protocols cleanly from User/Kernel Space
- Initialisation and Termination of logging tools such as Ethereal
- Initialisation and Termination of Test Scenarios
    - VoIP software such as ohphone.
    - More to follow.

Monitoring of Network

- Routing Tables of each node should be reported back to the super-node
- From routing tables the GUI should display a logical network architecture.

Log File Functions

One method to analyse the behaviour of the testbed and/or the correct operation of each module is through the generation of log files. Uniform log file structure could be useful to contrast them, one against the other.

- Collection of log information should occur after a test is complete.

Statistics and Analysis Functions

An important role of the testbed is to supply on-line information of what is happening into the system The GUI should give and overall status of the Testbed {number of nodes, SSID, mode etc}. The GUI should indicated each of the nodes current technology, routing protocol, driver, 802.11 tx power etc etc.