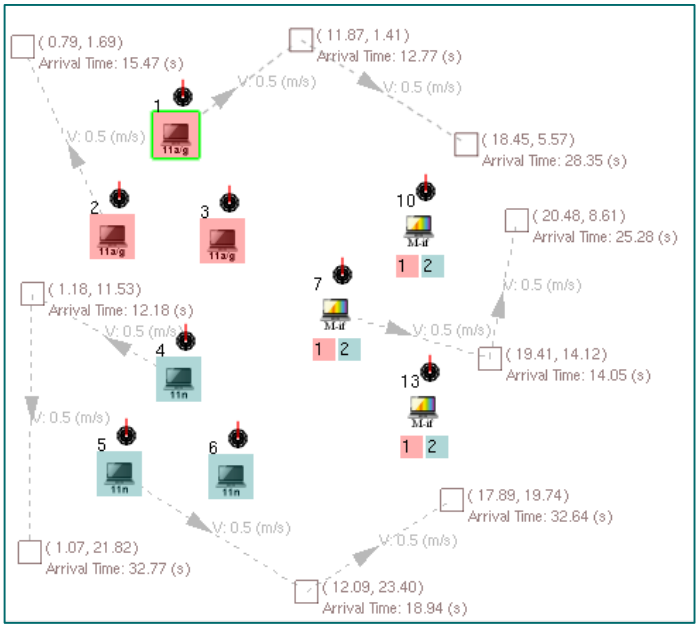
Mobile Ad Hoc Network

Graphical User Interface

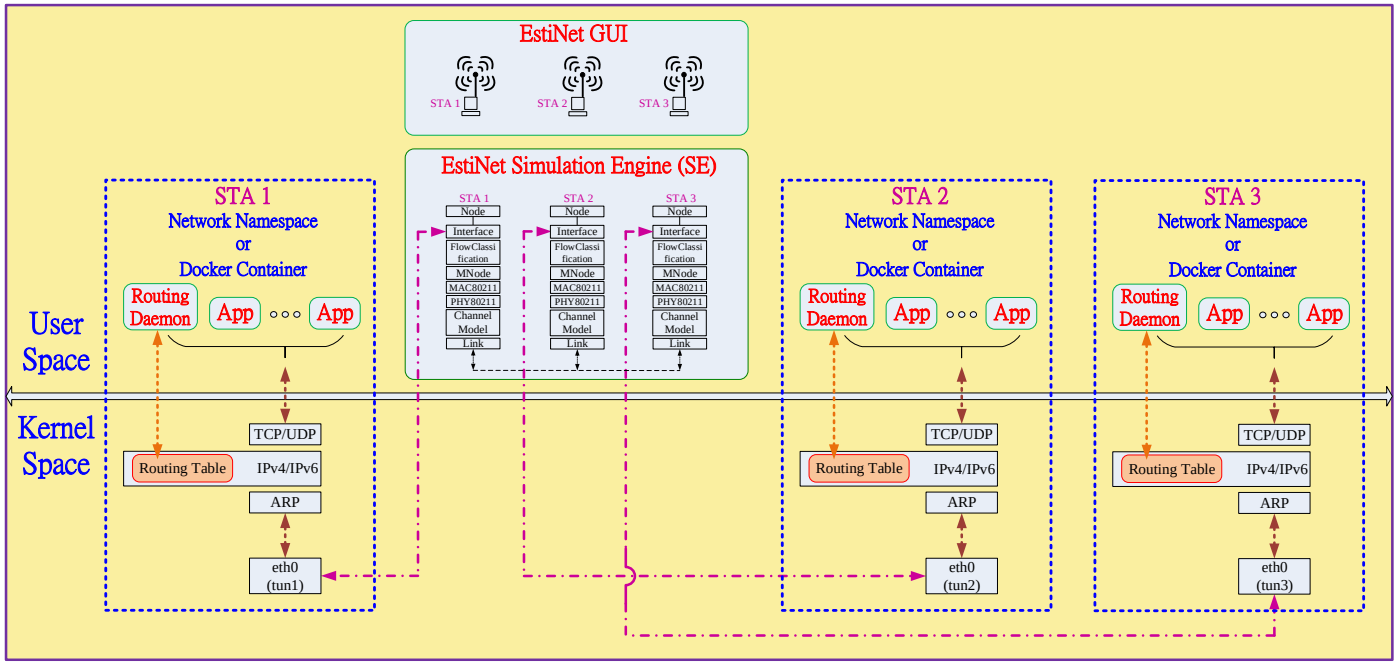


Functional Description

Virtual Mobile Station (STA)

- Linux user-space applications, kernel-space protocols, and virtual 802.11a/g/n network interface card (NIC) in EstiNet SE
- 802.11 CSMA/CA and EDCA
- Moving path assignment
- Multiple-interface mobile STA

Mobile Ad Hoc Routing Protocol

- Optimized link state routing protocol
  - Combine an open source routing daemon (olsrd2)
- GOD routing mechanism
  - Not a realistic routing mechanism
  - Pre-calculate each mobile STA's routing-path changes based on the assigned moving path
  - Result in nearly-perfect shortest path routing

EstiNet Simulation Platform on Fedora Linux