

Vehicular Network – OBU and RSU

Virtual Onboard Unit (OBU)

- Linux user-space applications, kernel-space protocols, and virtual 802.11p/1609 network interface card (NIC)
- Driving Model for Road Infrastructure

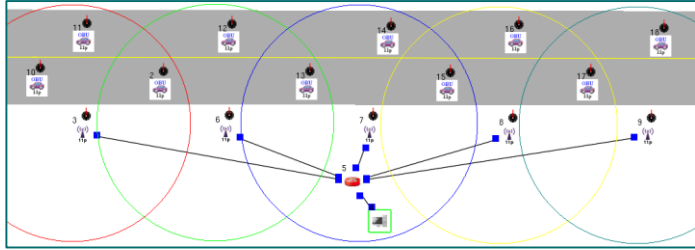
Virtual Roadside Unit (RSU)

- A gateway router with a virtual 802.11p/1609 NIC
- Linux kernel-space IPv4/IPv6 routing mechanism

Wireless Access in the Vehicular Environment

- IEEE 802.11p (WAVE)
 - 802.11 MAC and 802.11 PHY with 1609.4 extension
- IEEE 1609.3 – WAVE Networking Services
 - Provider service, user service, and WSM service
- IEEE 1609.4 – WAVE Multi-channel Operation
 - Control channel and service channel

Graphical User Interface



EstiNet Simulation Platform on Fedora Linux

