### 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

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### Graphical User Interface

#### EstiNet Simulation Platform on Fedora Linux

- **EstiNet GUI**
- **EstiNet Simulation Engine (SE)**
- **RSU 3 (Linux Bridge) Docker Container**
- **Host 2 Network Namespace or Docker Container**

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Visit [www.estinet.com](http://www.estinet.com) for more details