

NetSimTM

Simulation Platform For Network R & D

Technologies Covered: Ethernet, WLAN a/b/g/e/n, RIP, OSPF, TCP, UDP, ATM, BGP, MPLS, MANET, Wi-Max, GSM, CDMA, WSN, ZigBee, Cognitive Radio

Development Environment



Protocol Primitive Libraries provided in C source code form with necessary API's



Development Environment in NetSim enables you to call into NetSim user generated libraries to run network scenarios



User Generated Libraries can be created by modifying protocol libraires



Detailed Simulation Report of user generated libraries covering millions of packets and events are available for detailed analysis and reporting

Accelerate R & D

Enhance R & D productivity

- Leverage existing source code
- Run NetSim via Graphical User Interface (GUI) or Command Line Interface (CLI)

Improve research quality

- Animate model behavior during or after simulation using the packet animator
- Monitor packet flow via packet trace

Reduce time to publish

- Debug your models using simulation-in-the-loop debugging with Visual Studio
- Analyze your code execution through the event trace



Used by over 250 customers globally

Research Topics

Popular areas of research where NetSim can be used are

Cognitive Radio Networks (WRAN)	Wireless Sensor Networks (WSN)	Mobile Ad-Hoc Networks (MANET)
• Spectrum sensing & incumbent detection • Spectrum allocation • Geolocation based services • Interference analysis, measurement and modeling of spectrum usage • Protocol Architecture	• Energy efficiency • Efficient protocol design • Self configuration and fault tolerance • Routing • Localization • LEACH	• Routing protocols - Location based, Power aware etc. • Quality of Service in adhoc networks • Intrusion detection • Performance Analysis • Vehicular adhoc networks