

Modeler Protocol List

Application	Custom Database Email FTP HTTP (w/ Video Streaming) P2P File Sharing Print Remote Login / TELNET Voice	CVoIP – SIP, RTP, H.323 Video Conferencing Video Streaming CBR VBR Self-Similar Traffic (RPG) Playback of Captured Application Transactions
Transport	TCP (ECN, Reno, New Reno, SACK, Tahoe) MP-TCP SCPS-TP (TAO)	UDP
Routing	BGP EIGRP Distance Vector (for ATM Network) IGRP IS-IS OSPF	OSPFv3 PNNI (for ATM Networks) RIP RIPng Static Routes
Multicasting	IGMP IGMP Snooping MSDP	PIM-SM SMF Static RP / Auto RP
Network	IPv4 IPv6 Mobile IPv4	Mobile IPv6 HSRP RSVP
Security	Cyber Effects	HAIPE®
MPLS	CSPF Fast Reroute IGP Extensions (OSPF-TE / ISIS-TE)	Signaling (LDP / RSVP-TE) Tunneling Over MPLS (6PE) VPN
Quality of Service	802.1p CAR / Policing CQ DWFQ / CBWFQ DWRR / MDRR / MWRR	FIFO LLQ with Rate Limit PQ ToS / DSCP based classification WRED / RED
Bridging / Switching	Spanning Tree (STP, RSTP) VLAN VLAN-Aware ST (PVSTP, MSTP)	PBN / Q-in-Q Tunneling PBBN / MAC-in-MAC Tunneling SDN Switches - OpenFlow
MAC	ATM (including IMA) CSMA, CSMA/CA, CSMA/CD DPT / SRP Ethernet (Ethcoax, 10BaseT, 100BaseT, 1000BaseX, 10/40/100 Gbps) FDDI Fiber Channel	Frame Relay LANE LAPB Link Aggregation (inc. EtherChannel) SNA Token Ring X.25

Wireless	WLAN (802.11, a, b, e, g, n, p, s, ac) LTE (Rel 8 and Rel 9) UMTS (Rel 99, Rel 4, and Rel 5) WiMAX (802.16 and 802.16e) ZigBee™ (r20) & 802.15.4	Advanced Wireless Package SMART MAC Wireless TDMA
Manet Routing	AODV DSR OLSR	OSPFv3 TORA
Mobility	Arbitrary trajectories HLA mobility updates	Random Waypoint Satellite / Orbit modeling
Modulation	BPSK CCK DPSK FSK GMSK	MSK PSK QAM QPSK
Propagation	CCIR Free Space HATA ITU-R M.1225 Models ITU-R M.2135-1 Models	Multipath Propagation / MIMO Longley-Rice TIREM Walfish-Ikegami
Terrain	DEM DTED	OpenFlight™
Antenna	Antenna Pattern Editor	Antennas with target point Bolted antennas

■ Specialized Model (additional model suite license is required)



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