

PRODUCT SPECIFICATIONS

Feature Description	Model 1	Model 5	Model 10	Model 20	Model X2
Platform					
Desktop Hardware Appliance	Virtual Only	✓	✓	✓	-
Half Rack Hardware Appliance	-	✓	✓	✓	✓
Virtual Appliance -Certified VMware-Ready -OpenStack KVM	✓	✓	✓	✓	✓
Cloud AWS	✓	✓	✓	✓	✓
Number of Licenced Emulation Ports	2	2	2	4	4 (2 x 10G SFP+, 2 x 1G RJ45 Copper)
Maximum Link Speed (Bandwidth) / Packet Rate	50 Mbps / (3 Mpps)*	100 Mbps / (3 Mpps)*	200 Mbps / (3 Mpps)*	1 Gbps / (5.5 Mpps)*	10 Gbps / (44 Mpps)
BMC / IPMI Management Port	-	-	-	-	✓
UID Identifier Button	-	-	-	-	✓
Network Links					
Link Type: LAN, WAN, Wi-Fi, (A)DSL, 2G, 3G, 4G/LTE, 5G, Satellite, Custom	✓	✓	✓	✓	✓
Point-to-Point	✓	✓	✓	✓	✓
Dual hop (Single or Multi Link)	-	✓	✓	✓	✓
Multi-Link	-	✓	✓	✓	✓
Maximum Links	1	5	10	20	20
Link Congestion to mimic busy networks	✓	✓	✓	✓	✓
Bidirectional Link Configuration	✓	✓	✓	✓	✓
Queue Size (Buffer used when data rate exceeds transmission speed)	✓	✓	✓	✓	✓
Adjust Layer 2 Header Size	✓	✓	✓	✓	✓
Decrement Packet Time To Live (TTL/Hop Limit)	✓	✓	✓	✓	✓
Jumbo Frame Support	✓	✓	✓	✓	✓
Built-In Intelligence & Automation					
Geolocation Network Latency Calculator	✓	✓	✓	✓	✓
Database of more than 100 predefined networks, properties, types and conditions	✓	✓	✓	✓	✓

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Built-In Intelligence & Automation (Continued..)					
Network Scenario Builder & Player	-	-	✓	✓	✓
Command Line Interface	-	-	-	✓	✓
RESTful API	-	-	-	✓	✓
Presentation, Usage & Control					
Intuitive Multi-User Web GUI including built-in hover-over help; manuals & video tutorials	✓	✓	✓	✓	✓
LCD Set Up & Control Panel (Desktop only)	-	✓	✓	✓	-
Packet Capture on Ports or Links	✓	✓	✓	✓	✓
Packet Replay	✓	✓	✓	✓	✓
Graphs & Statistics Logging per link	✓	✓	✓	✓	✓
Configuration Reports	✓	✓	✓	✓	✓
Test Reports	✓	✓	✓	✓	✓
Multi-Tenanted	-	-	-	✓	✓
Connect unlimited users or test devices	✓	✓	✓	✓	✓
Save & Share Configurations & Scenarios	✓	✓	✓	✓	✓
Value-Added Features & Options					
Perpetual License including Full 1st Year Support & Maintenance	✓	✓	✓	✓	✓
Upgradeable to higher spec. models via licence key	✓	✓	✓	-	-
Ruggedized Carry Case (Optional - Hardware Appliances only)	-	✓	✓	✓	-
Network Impairments					
Listed below are the principal impairments the NE-ONE Professional can recreate. Each of these are further customizable by parameters to enhance the realism of your test setup.					
Latency & Jitter					
Gaussian Delay	✓	✓	✓	✓	✓
Step Delay Periodic	✓	✓	✓	✓	✓
Step Delay Packet	✓	✓	✓	✓	✓
Fixed Delay	✓	✓	✓	✓	✓
Fixed Delay with Jitter	✓	✓	✓	✓	✓

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Network Impairments (Continued...)					
Random Delay	✓	✓	✓	✓	✓
Inter Packet Gap	✓	✓	✓	✓	✓
Loss					
Random Loss with Burst	✓	✓	✓	✓	✓
Poisson Drop	✓	✓	✓	✓	✓
Packet Error - 1 in X bits	✓	✓	✓	✓	✓
Burst Loss	✓	✓	✓	✓	✓
Drop - 1 in X	✓	✓	✓	✓	✓
Random Drop	✓	✓	✓	✓	✓
Duplicate					
Packet Duplicate & Move	✓	✓	✓	✓	✓
Out of Order					
Random Packet Time Reorder	✓	✓	✓	✓	✓
Random Packet Move Offset	✓	✓	✓	✓	✓
Packet Reorder 1 in X	✓	✓	✓	✓	✓
Fragment					
Fragment MTU	✓	✓	✓	✓	✓
Bit Error					
Error with Burst	✓	✓	✓	✓	✓
Poisson Error	✓	✓	✓	✓	✓
Random Packet Error	✓	✓	✓	✓	✓
Random Packet Corrupt (Including Bit Flipping)	✓	✓	✓	✓	✓
Scenario Builder Network Transitions					
Gradual - Changes parameters gradually (linearly)	-	-	✓	✓	✓
Variable - Changes parameters randomly	-	-	✓	✓	✓
Outage - creates an increasingly lossy network, followed by total loss, then comes back quickly but not instantly	-	-	✓	✓	✓
Certification					
FCC/CE Certified (Hardware appliances only)	-	✓	✓	✓	✓
VMware Ready Certified (Virtual appliances only)	✓	✓	✓	✓	✓

* Exceeds packet rate required to be line rate for all packet sizes for licensed bandwidth.

