ITRINEGY NE-ONE FAMILY
IMPAIRMENTS & TRANSITIONS DATA SHEET

NE1NE

OVERVIEW

The NE-ONE family provides the most complete and realistic network impairment library allowing you to easily mimic what happens in real-world networks. With more than 100 parameters to choose from NE-ONE combines realism and accuracy in a Software Defined Test Network that allows you to test applications over a range of controllable and repeatable scenarios. Furthermore, each impairment function has multiple parameters allowing you to customize its behavior for your specific testing needs. NE-ONE's impairments are frequently updated based on evolving networks and customer needs.

IMPAIRMENTS

Edition	Professional	Enterprise
Impairment Type		
Linkspeed, Bandwidth & Queuing		
Linkspeed and FIFO Queue Bytes	✓	✓
Linkspeed with Variable Congestion	-	✓
QoS Class Bandwidth	-	✓
QoS Class Bandwidth using Expressions	-	✓
Latency & Jitter		
Gaussian (Normal Distribution) Delay	✓	✓
Step Delay Periodic	✓	✓
Step Delay Packet	✓	✓
Fixed Delay	✓	✓
Fixed Delay with Jitter	✓	✓
Random Delay	✓	✓
Delay Sequences	-	✓
Delay Scenarios	-	✓
Inter Packet Gap	-	✓
Loss		
Random Drop with Burst	✓	✓
Poisson Drop	✓	✓
Packet Error - 1 in X Bits	✓	✓
Burst Loss	✓	✓
Drop - 1 in X	✓	✓
Random Drop	✓	✓
Cloud Network (Represent a Core Network in a Single Object)		
Bandwidth	-	✓
Latency	-	✓
Jitter	-	✓
Queue	-	✓
Loss	-	✓
Cost (TTL)	-	✓

IMPAIRMENTS

Edition	Professional	Enterprise
Impairment Type		
Bit Error		
Error with Burst	✓	✓
Poisson Error	✓	✓
Random Packet Error	✓	✓
Random Packet Corrupt (Including Bit Flipping)	✓	✓
Duplicate		
Packet Duplicate & Move	✓	✓
Out of Order		
Random Packet Time Reorder	✓	✓
Random Packet Move Offset	✓	✓
Packet Reorder 1 in X	✓	✓
Fragment		
Fragment MTU	✓	✓
Pause		
Pause Transmission	-	✓

TRANSITIONS

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	✓	✓
None - Changes parameters immediately between scenarios	✓	✓