

Apposite vs. Spirent and Ixia

	Apposite	Spirent	Ixia	Why It Matters	Capability Details
Simulate long latency delays	✓	✗	?	In real world environments network connections can easily exceed 80ms delay and reach as high as 5 seconds.	Spirent only supports 80ms of delay on their standard 100 Gbps product, and charges for an option to achieve a maximum delay of 256ms. The Netropy product supports up to 8.4 secs of delay at 10 Gbps and 1.5 seconds of delay at 100 Gbps.
Simulate long jitter delays	✓	✗	?	In real world environments jitter can vary from very low latency to very high latency. Often exceeding 100s of milliseconds.	Spirent only supports 100ms of jitter on their standard 100Gbps product. To get up to 400ms of jitter you may have to pay for an upgrade or limit some other features. Netropy supports up to 1.5 seconds (1500ms) of jitter out of the box without the need for upgrades or limitations.
Full REST API automation	✓	✗	✗	REST API is an industry standard to help configure and automate test and QA environments.	Netropy is the only WAN emulator that supports a RESTfull API.
Standard 100Gbps interface	✓	✓	✗	The ability to achieve 100Gbp speeds without bonding interfaces together reduces set up times and the risk of error.	Ixia binds together 10 10Gbe devices to achieve 100Gbe speeds and uses a switch to supply the 100Gbe interface. Netropy supports a true 100Gbps interface.
10, 25, 40, and 100Gbps interfaces on a single appliance	✓	✗	✗	One product can support the entire development cycle. Development projects start out by testing over 10G links, then companies expand to 25Gbps and 100Gbps over time.	Netropy would only require adapters to upgrade to faster speeds.
Browser based UI	✓	✓	✗	A product with a browser-based UI can be supported by any device that can run a web browser, so it is not limited to a specific operating system or device.	Ixia requires specialized software that only runs on windows. Netropy uses a browser based UI that can run on Windows, Apple, Linux, or Mobile.
LDAP based security	✓	✗	✗	LDAP based security easily integrates into the security network, which reduces administration overhead.	Netropy is the only WAN emulator that supports LDAP authentication.

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Affordable pricing	✓	✗	✗	Companies want the best possible product at a good price.	
15 emulation paths standard	✓	✗	?	Applications run over many different network types: Wi-Fi, cellular, dedicated high-speed links, SD-WANs and many other types. It is important that an emulator supports many different paths within a physical port to accurately model all the network conditions that applications will experience.	Spirent charges more if you want to emulate more than 2 paths. Netropy supports 15 separate paths per port pair, up to 60 paths for 1 Gbps and 10 Gbps appliances.
Emulation replay of live network conditions	✓	?	?	The ability to instantly re-create the exact conditions that exist on live networks allows for more accurate predictions of real-world performance.	Netropy comes with a free "Netropy Recorder" tool that can be deployed to troublesome networks. You can then load this recording into the Netropy system to replay the exact network conditions.
Portable 1 Gbps emulators	✓	✗	✗	Portable emulators are very low cost and can easily be taken out into the field to perform testing or for a customer demonstration.	Apposite sells very small and portable 1 Gbps emulators.
VM based WAN emulator (KVM, VMWare)	✓	✓	✗	Many test and QA departments are moving to virtual environments to lower costs and maintenance. It also allows them to quickly move a test bed to anywhere in the world.	NetropyVE is the only enterprise level WAN emulator available for virtual environments.
Cloud based WAN emulator (AWS, Azure)	✓	✗	✗	Many organizations are beginning to prototype networks in the cloud. Having native support for AWS allows companies to build out global network conditions within a single cloud instance. This is the only way to create realistic network conditions at scale and saves money.	NetropyCE is the only enterprise level WAN emulator available for cloud.

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Upgrade interface speeds via software	✓	✗	✗	Software upgrades allow customers to buy only what they need. Customers can pay for 10Gbps emulation and upgrade the appliance to enable 100Gbps when their projects require it.	Apposite allows customers to buy 1 Gbps or 10 Gbps products and later upgrade them via software to 10 Gbps and 100 Gbps speeds.
2,500+ WAN emulation customers	✓	✗	✗	A large WAN emulation customer base means a product can be trusted to be reliable and accurate.	Apposite is the market leader in WAN emulation and has thousands of happy developer, service provider, enterprise, and government customers.
Products made by the manufacture	✓	✗	✓	Companies who manufacturer a product have a commitment to it's success and it is a critical part of their business. Rebranded products do not get the same level of support or product enhancements.	Spirent rebrands the Calnex emulator. Apposite is the manufacture of the Netropy products.
Small datacenter profile	✓	✓	✗	Data center rack space is expensive real estate; you want to have room to grow.	Ixia's 100 Gbs device requires 6U. Apposite's is only 2U.
Multiple impairments do not effect performance	✓	?	?	When creating realistic networks it is not uncommon to have multiple impairments at the same time. The product needs to support this at line speed.	Some competitors manuals recommend turning off impairments if inaccurate results are being achieved. Netropy can run all impairments at the same time at line speed.