HOW CYBER TEST SYSTEMS AND NEOLOAD CAN PROVIDE FUNCTIONAL SECURITY TESTING THROUGH USER BEHAVIOR REPLICATION

Unfortunately, many organizations are used to falling victim to cyber attacks on their public and private applications. It's, therefore, no surprise that application security levels have become a requirement before going to into production. Applying strict security rules can affect the performance and the user experience of real users. Companies who deliver customer-facing applications should be aware of the user experience and do whatever it takes to identify and reduce performance as much as possible.

How can we make sure we are deploying a secure and performant application in production?

One of the biggest challenges for any organization is that performance and security have always resided in two different silos. The reality is an organization needs to combine both practices using the DevSecOps approach.

How can I find a solution having the ability to test the security and the performance of a system?

The Application Traffic Generator Cyber Test Systems Application Traffic Generator CTS-ATG is the combination of both worlds in a single appliance.

Cyber Test Systems expertise in hardware technology combined with NeoLoad software has produced the Cyber Test Systems Application Traffic Generator CTS-ATG-1040-B: a consolidated solution to perform functional security testing by replicating users behavior.

Why NeoLoad?

The NeoLoad performance testing platform is designed to help today's performance engineers and developers save time. With advanced capabilities such as automatic script maintenance, Selenium conversion, and one-click dashboard accessibility (where shared metrics are displayed in Dynatrace), organizations are now able to fully automate, provide visibility, and easily share with key stakeholders across Dev, QA, and Ops.

Why Cyber Test Systems Application Traffic Generator CTS-ATG?
Cyber Test Systems brings its expertise in hardware technology combined with NeoLoad.

1. Improved use of NeoLoad with a preconfigured solution.

Usage of the software is simple and begins when the user plugs in his equipment. At which time, he/she and can directly generate traffic without any configuration constraints. All of NeoLoad's features are preserved and enhanced for high-performance scalability testing. In addition to facilitating physical integration, Cyber Test Systems appliance boost NeoLoad performance with high-speed legitimate traffic generation up to 40 Gbps.

2. Expanded use of the NeoLoad system as part of Cyber Range or datacenter

This partnership offers a complete IT solution including hardware and software, enabling the user to leverage NeoLoad as part of cybersecurity exercises, playing the role of the Green Team and generating legitimate traffic at a high flow rate. By combining realistic legitimate traffic from the Cyber Test Systems Application Traffic Generator CTS-ATG with malicious traffic, teams dedicated to cybersecurity (Blue Team) will have to stop attacks without disrupting normal operation, checking to make sure ordinary users aren't impacted. It allows organizations to increase their competence by reinforcing the realism of the cyber crisis management environment.

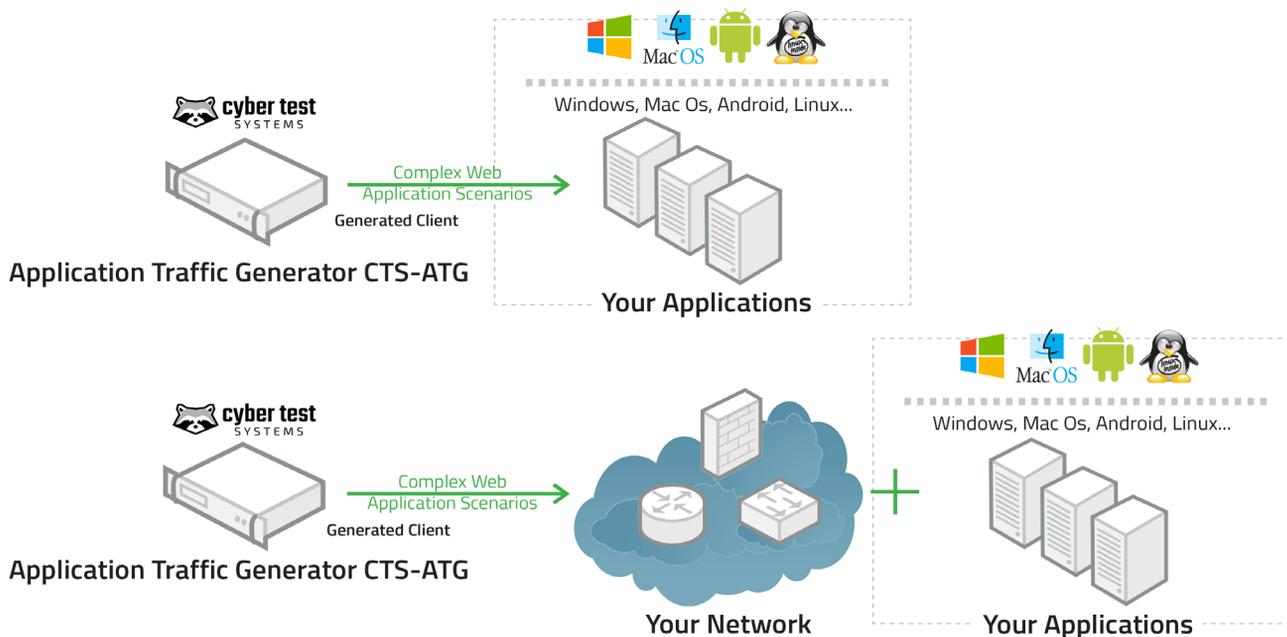## What are the Key Benefits of This Integrated Solution?

Cyber Test Systems provides all the technology to generate most the common attacks of the markets (DDOS, Penetration testing, etc.) and the ability to create real user traffic.

With Neoload's help, projects can easily measure the impact of cyber attacks on the end user by combining Cyber Test Systems Application Traffic Generator CTS-ATG and attacks generated from the Network Traffic Generator CTS-NTG.

Cyber Test Systems Application Traffic Generator CTS-ATG offers the hardware capacity, storage, and the load testing feature as a single appliance. The team need only plug-in over their network and build load scenarios to secure the deployment of its application.

In short, Cyber Test Systems Application Traffic Generator CTS-ATG is :

Pre-installed with NeoLoad software - Self-contained without the need for additional software - Driverless with minimal effort required for configuration	**Solidity** - Solid technology which can deploy in a military rack if necessary
High-Speed - Application traffic generation up to 40Gbps - 1x port 10/100/1000 copper for management and 1x port 10/100/1000 copper for recovery	**Security** - Protection or sensitive data
Cyber Range Ready - Cyber Range, for Cybersecurity exercises - Datacenter - 1U appliance e.g.	**European Manufacturing** - Entire production chain designed and developed in France - Internationally recognized for quality

Windows, Mac Os, Android, Linux...

Complex Web Application Scenarios
Generated Client

Application Traffic Generator CTS–ATG

Your Applications

Windows, Mac Os, Android, Linux...

Complex Web Application Scenarios
Generated Client

Application Traffic Generator CTS–ATG

Your Network

Your Applications

Cyber Test Systems Application Traffic Generator CTS-ATG Helps Generate Large Load Tests without Need for Additional Hardware

The hardware specifications of the Cyber Test Systems Application Traffic Generator CTS-ATG are aimed to generate massive loads over the network. Projects will be able to simulate millions, thousands of users without the need for additional hardware.

The appliance is shipped with NeoLoad tools including:

• A controller (to design and launch your tests)

• A dynamic load generator to generate the traffic
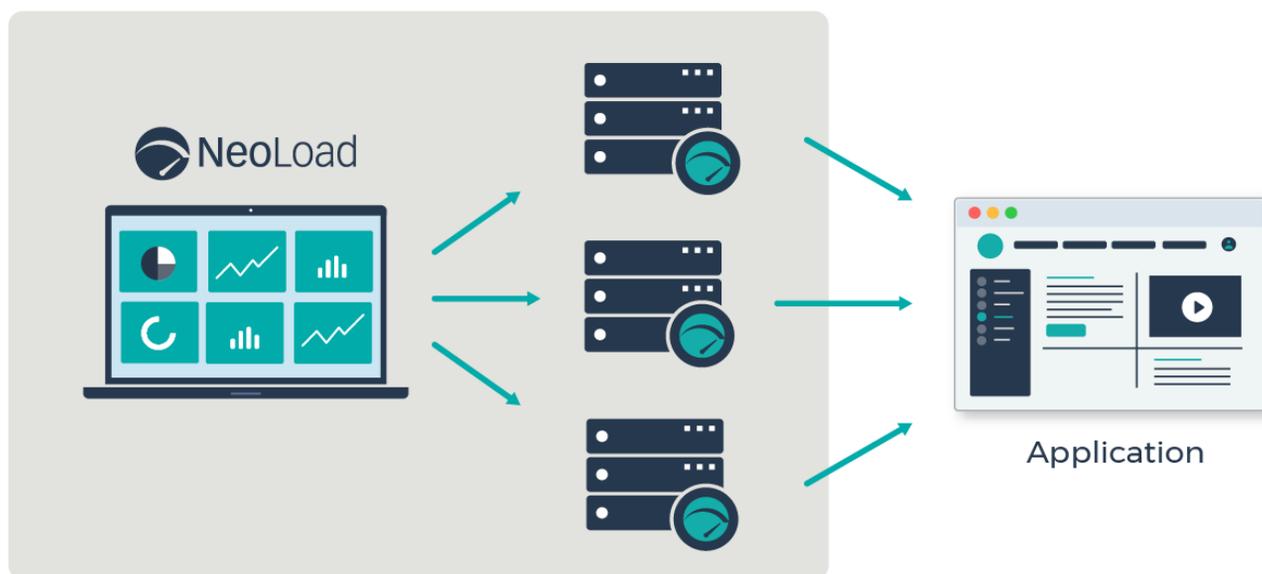
About Cyber Test Systems

Cyber Test Systems is a french company composed of experts with more than 20 years of experience in the field of cyber defense training. The Cyber Test Systems mission is to train private, public and government organizations to prevent cyber-crises by anticipating them and training their teams to the maximum level of challenges and risks. Years of experience in setting up cyber defense exercises and defining network architectures has allowed to develop the expertise in Cyber Range with dedicated tools and network equipments.

About Neotys

Neotys has nearly 15 years of development investment into NeoLoad – the performance testing platform designed to accelerate Agile and DevOps processes. It's built by engineers who recognized that to achieve their Agile adoption objective; they needed to create a product that could facilitate superior load and performance testing continuously. The result – up to 10x faster test creation and maintenance with NeoLoad.

We genuinely believe that the performance engineer can become the critical application performance partner providing the best testing coverage while respecting the cadence of the Continuous Delivery process. As performance becomes the responsibility of the wider team, continued delivery of an optimized performance testing platform is what drives our work every day.

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