



Skaion Corporation Capabilities Brief

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Capabilities:

Skaion Corporation provides a traffic generation capability designed to test cyber defenses under a realistic load. Skaion has provided traffic generators and support for government testbeds, and has also used its own facilities to create reference data sets and analyze network intrusion detection systems. Skaion has crafted novel vulnerabilities and injected them into testbeds, creating unique “zero-day” attacks.

The Skaion Traffic Generation System (TGS) models synthetic users to generate FTP, HTTP, HTTPS, IRC, POP3, SMTP, SSH, and VoIP traffic, as well as malicious background scans and attacks. The TGS uses both real and customized client programs, and generates real network traffic by interacting with real servers. These synthetic users can be customized for

There are two models of Skaion traffic generator:

- a Linux generator that simulates hundreds of simultaneous users and
- a Windows generator that simulates a single user by driving real Windows applications using keyboard events.

A Linux master controls a set of Linux and Windows generators, generating traffic to match a configurable schedule file of per-protocol load levels.

Skaion can:

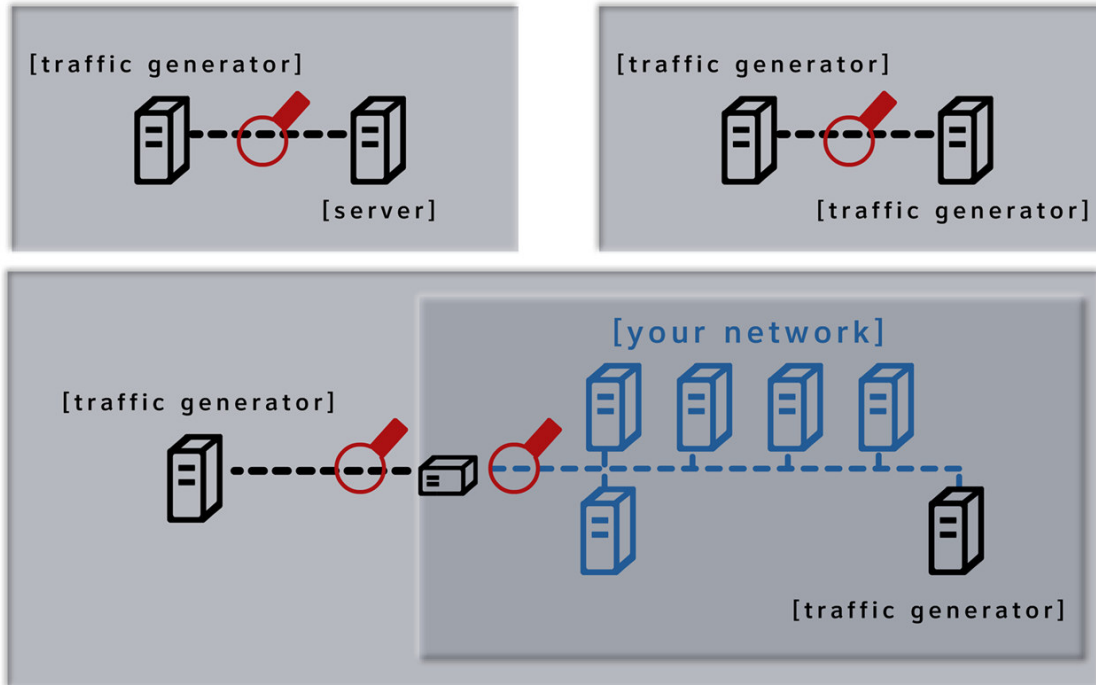
- Install, configure, and support traffic generators on customer testbeds
- Assist with general testbed design and support
- Create reference data sets using the Skaion testbed for shipment on hard drive
- Support remote access to the Skaion testbed for live testing without the overhead of creating and maintaining a local testbed
- Perform stateful load testing on complex and dynamic web application environments, using real browsers such as Internet Explorer and Firefox.
- Create custom generators to create load for specialized protocols
- Craft unique “zero-day” vulnerabilities and exploits

Skaion Corporation possesses an SECRET facility clearance, and several of its employees are cleared at the SECRET or INTERIM TOP SECRET level.

Business Size/Ownership: Veteran-owned Small Business

Years in Business: 8 years (incorporated 1 May 1998)

Affiliate Information: Skaion Corporation is employee-owned, and operates as a prime contractor on the majority of its current contracts. In the past, Skaion has subcontracted for BBN Technologies, Northrup Grumman and MIT Lincoln Laboratory.



We will customize a testbed to fit your needs.

Federal Customers:

1. ARDA/DTO, BAA 03-03-FH, "*Information Assurance for the US Intelligence Community*," Contract #NBCHC030117. Contact: Carl Landwehr, DTO. Skaion is providing reference data sets to assist development and evaluation of situation awareness (SA) systems. These data sets include multiple sensor streams such as tcpdump packet logs, IDS alerts, network flows, firewall logs and application logs.
2. DARPA, BAA 03-18, "*Dynamic Quarantine of Worm-Based Attacks Against Military Enterprise Networks*". Contract #N66001-04-C-8006. Skaion has provided background traffic and realistic and safe worm emulation.
3. USAF, "*Defensive Information Warfare Technology Applications*" (DIWTA), Contract # F30602-99-D00-0001 Task 6. Contact: Brian Spink, AFRL/IFGB, 315-330-7596. Skaion created tests for network intrusion detection systems, focusing on two components: resistance to evasion; and performance under load. Tested and reported on several commercial NIDS at the FOUO level.