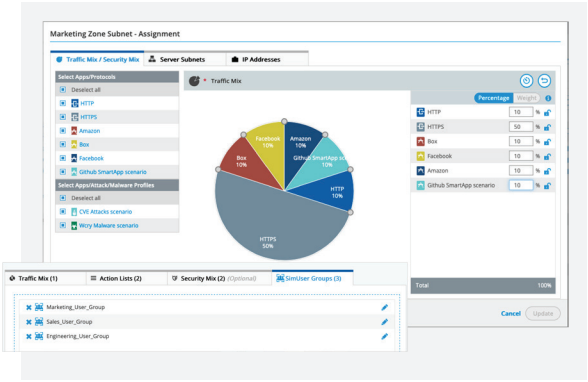
VIAVI CyberFlood
Zero Trust Network Access

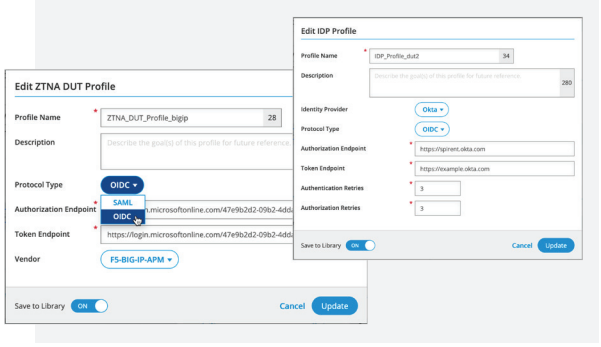
Solution Overview

The new CyberFlood Zero Trust Network Access (ZTNA) brings new levels of realism by emulating user authentication workflow in conjunction with contextual application traffic generation to validate the performance, scalability, and effectiveness of secure ZTNA Policy Enforcement Points (PEPs) and the impact of access policies on end-user QoE.



CyberFlood embraces the Zero Trust security framework by emulating user groups that represent authenticated/unauthenticated and authorized/unauthorized users and their applications interactions across a distributed hybrid network.

CyberFlood test agents or test ports are able to statefully interact with Policy Enforcement Point and authenticate with Okta Identity Provider before generating test traffic for hundreds of simulated users. The simulated user(s) will be emulating traffic (legitimate and malicious) trying to gain access to a specific protected application, they are first redirected to authenticate by the PEP, and once the authentication is successful, they are again redirected to finally access and retrieve data from the protected application.

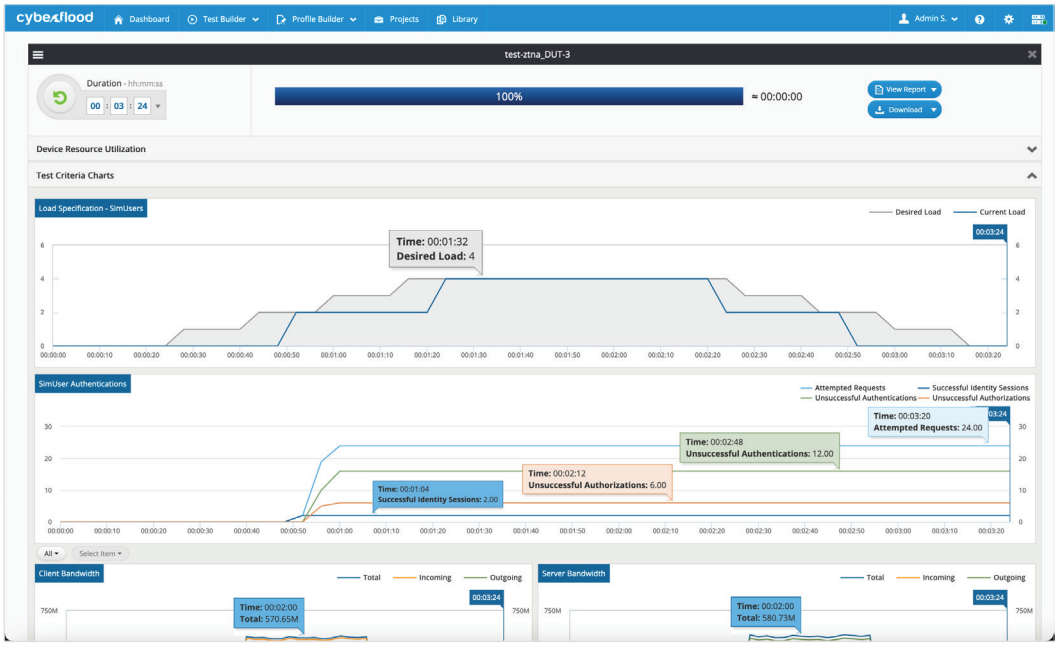


The Zero Trust Network Access (ZTNA) test builder enables users to:

- Test the Zero Trust Policy Enforcement Point (PEP), validate that secure network and application access are delivered and verify that connections and per-user access policies are functioning as intended
- Directly configure user groups that emulate authenticated/unauthenticated and authorized/unauthorized users accessing applications
- Validate user identity authentication for accessing applications based on SAML and OIDC
- Build relationships between application traffic, subnets, and groups of users for flexibility in measuring the impact of PEP access policies on performance and QoE
- Measure the impact of an actual Identity Provider (IdP) for authenticating users with corresponding policies in ZTNA PEP – Current support IdP is Okta
- Overcome external IdP rate limiting to exercise the scale of PEP performance using CyberFlood SAML IdP simulation.

CyberFlood ZTNA combined with the advanced application traffic emulation enables users to:

- Test of interoperability of Identity Provider, Policy Enforcement Point (SASE, NGFW, APM) & security polices based on user context
- Validate the scale & performance of the ZTNA architecture by emulating hundreds of authentication requests and concurrent sessions in a repeatable manner
- Characterize the impact of Zero Trust policies on the distributed network performance and QoE by measuring KPIs such as throughput, concurrent users, application latencies before and after implementing Zero Trust controls
- Emulate authenticated users trying to access resources that are not available to them to assess efficacy of the Zero Trust polices Combine authenticated, unauthenticated &unauthorized users to validate least-privilege access policies
- Proactively assess functionality, performance, and efficacy of the Zero Trust policy enforcement points and polices on a continuous basis or periodic basis to monitor for any undesirable or unintended deviations
- Validate Policy Enforcement Point policies without adding integration overhead and rate limiting of an external IdP by using CyberFlood SAML IdP Simulation.



VIAVI Services

Education Services

- Web-based training: 24x7 hardware and software training
- Instructor-led training: Hands-on methodology and product training

Ordering Information

Part Number	Description
CF-SW-ZTNA	CyberFlood ZTNA Testing Perpetual. Includes integration with OKTA IdP and SAML & OIDC authentication.
CF-SW-ZTNA-SUB	CyberFlood ZTNA Testing Subscription. Includes integration with OKTA IdP and SAML & OIDC authentication.
CF-SW-ZTNA-CF30, CF-SW-ZTNA-C100/C200, CF-SW-ZTNA-CF400	CyberFlood ZTNA Testing for Appliances. Includes integration with OKTA IdP and SMAL & OIDC authentication.

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