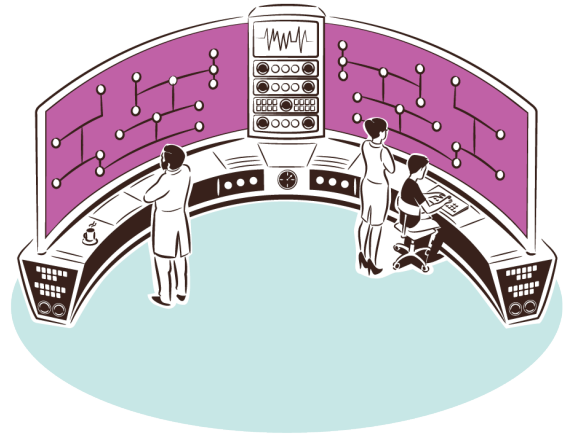# ✕ ALEF

F5 SSL Orchestrator
Gain visibility into your encrypted traffic

Maximize infrastructure investments, efficiencies, and security with dynamic, policy-based decryption, encryption, and traffic steering through multiple inspection devices.

USE case:

Customer requirement:

Customer A required upgrade of old network firewalls to new NGFW firewalls with URL filtering and IPS features. In the case of encrypted communication, firewalls need to be able to decrypt, inspect and re-encrypt the traffic.

PROBLEM:

Many vendors support SSL/TLS decryption but at a cost of significantly lower performance. Vendor recommended solution was to use appliances with 50Gbps thruput to reach 20Gbps thruput with decryption enabled.

SOLUTION:

F5 SSL orchestrator utilizes dedicated HW accelerators for SSL/TLS operations and depending on model can provide up to 600Gbps decryption performance.

In final solution, SSL Orchestrator decrypts/encrypts TLS traffic and Next-Gen Firewalls inspect the traffic and enforce security policies. By using SSLO customer saved approx. 30% of total cost compared to vendor recommended solution.
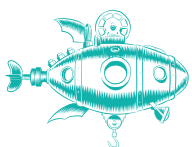
f5

Benefits of F5 SSL Orchestrator:

- HW accelerated SSL/TLS
- Can be used for forward (client) traffic and reverse (published services) traffic as well
- Supports L3 (routed) and L2 (transparent) modes
- Dynamic service chaining allows definition of granular policies
- Parallelization of services and classification decrease traffic latency

Benefits of using SSLO with 3rd party security solutions:
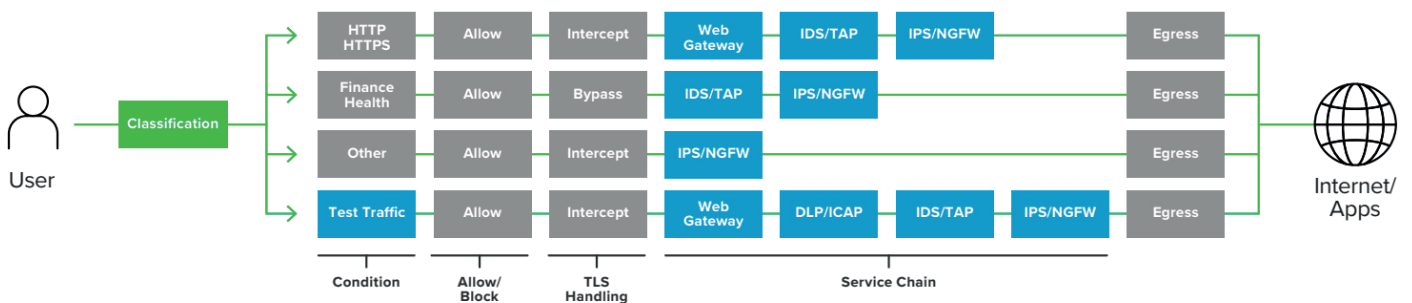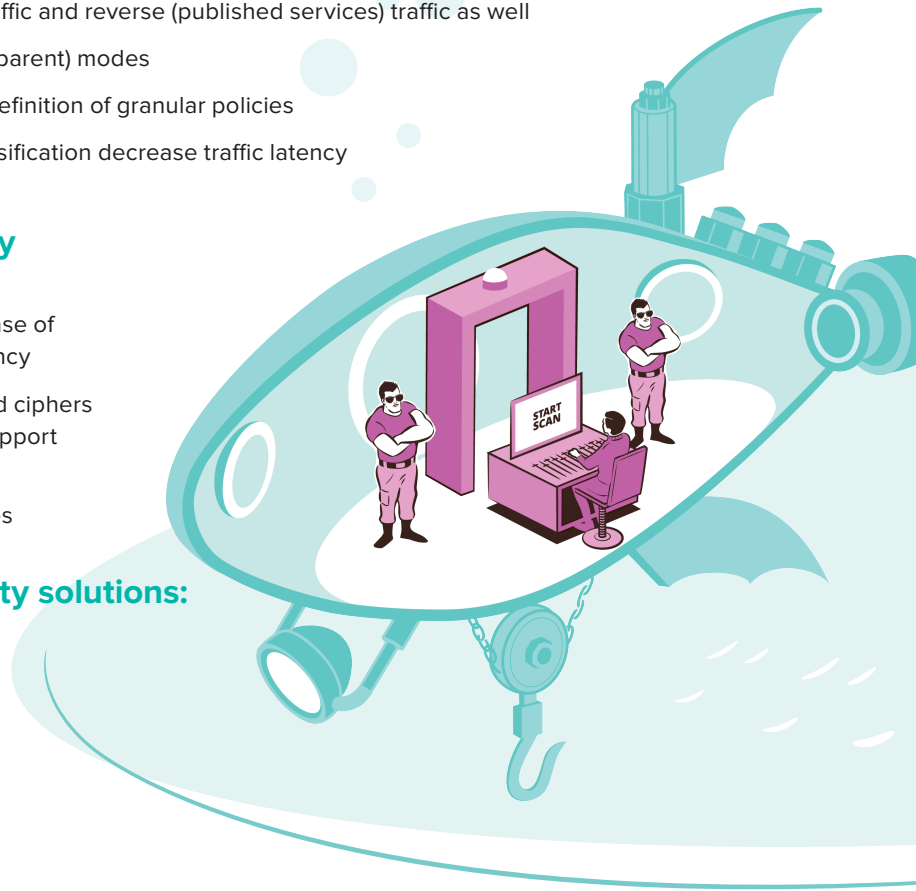
- No need to decrypt traffic -> increase of performance and decrease of latency
- Support of latest TLS protocols and ciphers even for solutions that does not support SSL/TLS decryption at all
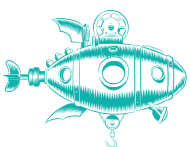- Support hardware security modules

SSLO supports wide range of security solutions:

- Next-Gen Firewalls
- IPS/IDS
- Malware Protection
- Secure Web Gateways
- Data Loss Prevention
- Generic L2/L3 services

Condition	Allow/Block	TLS Handling	Service Chain			
HTTP HTTPS	Allow	Intercept	Web Gateway	IDS/TAP	IPS/NGFW	Egress
Finance Health	Allow	Bypass	IDS/TAP	IPS/NGFW		Egress
Other	Allow	Intercept	IPS/NGFW			Egress
Test Traffic	Allow	Intercept	Web Gateway	DLP/ICAP → IDS/TAP → IPS/NGFW		Egress

User → Classification → ... → Internet/Apps

With SSLO you will gain visibility into and orchestration of encrypted traffic, what are keys to encrypted threat protection. Malware already mastered encryption. Did you?

f5