

HALTDOS SWIFT TECHSPECS

Base Models MITIGATION PERFORMANCE	HD-SFT-4100	HD-SFT-4600	HD-SFT-4620	HD-SFT-5100	HD-SFT-5400	HD-SFT-6200
L4 Throughput	upto 5 Gbps	upto 24 Gbps	upto 24 Gbps	upto 48 Gbps	upto 72 Gbps	upto 120 Gbps
L7 Throughput	upto 4 Gbps	upto 20 Gbps	upto 20 Gbps	upto 40 Gbps	upto 60 Gbps	upto 100 Gbps
SSL Throughput	4 Gbps	20 Gbps	50 Gbps	40 Gbps	50 Gbps	100 Gbps
Compression Throughput	4 Gbps	20 Gbps	37 Gbps	24 Gbps	37 Gbps	66 Gbps
Decompression Throughput	5 Gbps	20 Gbps	54 Gbps	30 Gbps	54 Gbps	120 Gbps
SSL/TLS Connections per Second	22K (RSA 2K)	40K (RSA 2K)	192K (RSA 2K)	40K (RSA 2K)	96K (RSA 2K)	96K (RSA 2K)
33L/1L3 Confidentions per Second	15K (ECC)	25K (ECC)	96K (ECC)	25K (ECC)	48K (ECC)	48K (ECC)
L4 Connection per Second	480 K	960 K	10 M	1.2 M	2 M	4 M
L7 Request per Second	750 K	3 M	18 M	7 M	10 M	15 M
Max Concurrent Connections	24 M	56 M	200 M	56 M	96 M	160 M
Induced Latency	Z4 IVI	30 101	200 IVI < 1 milli-:		90 IVI	IOU IVI
HARDWARE SPECS			× 1 mins	second		
Processor	Intel Xeon	Intel Xeon	Intel Xeon	Intel Xeon	Intel Xeon	Intel Xeon
CPU Cores	8	20	64	32	40	64
Memory	16 GB	32 GB	256 GB	64 GB	128 GB	256 GB
Hard Disk	256 GB SSD	512 GB SSD	2 TB SSD	512 GB SSD	1 TB SSD	2 TB SSD
	200 00 000		and Hardware HSM for S			2 10 000
Additional Specs			e for FIPS-140-2 (addition			
Form Factor	1U/2U Rack Mount Ser		(0.000	<u> </u>		
Power Supply		ply (Hot Swappable) AC	170-240V, 50 Hz.			
Operating Temperature	0° – 40° C	. , (S. appable) NO	,			
Humidity	8% - 95% (non-conder	nsing)				
Virtual WAF Supported	NA	upto 15	upto 25	upto 25	upto 30	upto 50
			ory can be customized		-1	
INSPECTION PORTS						
1 GE Ports	8	8	-	-	-	-
10 GE Ports	-	2	4	4	8	8
25 GE Ports	-	-	-	-	-	-
40 GE Ports	-	-	2	2	2	4
100 GE Ports	-	-	-	-	-	-
		No. of ports ca	n be customized over t	he base model		
OUT OF BAND PORTS						
1 GE (RJ-45) Ports	2	2	2	2	2	2
Console (RS232/RJ45) Ports	1	1	1	1	1	1
HA Ports (RJ-45/SFP/SFP+)	1	1	1	1	1	1
TECHNOLOGY, CERTIFICATION &	CURRORT				I I	
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Platform Technology	Haltdos Platform – hdP Signature with Threat Ir	ntelligence, Machine Lea				
Platform	Haltdos Platform – hdP Signature with Threat Ir	ntelligence, Machine Lea Bandwidth capping bas	arning			
Platform Technology	Haltdos Platform – hdP Signature with Threat Ir Unlimited applications. supported bandwidth o	ntelligence, Machine Lea Bandwidth capping bas	arning ed on configured license.			
Platform Technology License	Haltdos Platform – hdP Signature with Threat Ir Unlimited applications. supported bandwidth o FCC, ROHS, CE compl	ntelligence, Machine Lea Bandwidth capping bas n hardware	arning ed on configured license. EAL 2+			
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Command Line Interface (CLI)	Command Line Interfere over CSU or coppede port
Command Line Interface (CLI) API Integration	Command Line Interface over SSH or console port Yes (XML or JSON)
System Management	IPMI 2.0 Compliant
Logging	Centralized logging of system, services, MIS, incidents, Audit Trail
Dashboards	Real-Time & historical dashboards with custom duration. Support for custom dashboards
System Status Dashboard	Status dashboard for 1-click health check
Reporting	Periodic daily, weekly or monthly reports (predefined or custom) in PDF or Excel
RBAC Administration	Configurable user profiles with role based access control
Backup	Automatic or manual backup and restore
Policy Management	On the fly configuration updates on mitigation appliances
Certificate Management	SSL certificate management with support for Let's Encrypt certificate generation
Events / Alerts	Detailed event and alert reporting on attack, health, etc.
Network Forensic	Network forensic with packet capture and traceroute
Attack Forensic	Built-in utilities for investigating attackers, attack payloads and identifying false positives
Haltdos Threat Stream	Periodic threat intel updates (Signatures, Geo IP, Bad IP, TOR IP, Anon Proxy, etc.) from Haltdos
Updates	Update and upgrade management on version releases and patch updates from Haltdos
WAF FEATURES	ANNOTE TO WHAT IS A STATE OF THE CONTROL OF THE CON
Comprehensive Security	OWASP Top 10 Web Application Security Risks, OWASP Top 20 Automated Threats and SANS 25 Software Errors
Security Profiles	Multiple security profiles with support for different security status per application based on url, source, country, regex, etc.
Positive Security Model	Support for Form Rules for positive security model
Negative Security Model Virtual Patching	Support for user defined Firewall Rules for REGEX based negative security model Support for virtual patching through built-in web security scanner or upload of 3rd party SAST / DAST / IAST scan results
Built-in Signatures	Over 4000+ built-in signatures on various technologies, platforms and frameworks with pre-defined templates.
0-day Protection	Automatic learning and profiling application structure. Threat scoring and baseline creation for AI driven 0-day attack protection
Malicious Source Protection	Protection against TOR IP, Bad Reputation IP, dark IP, known Bots, proxies, spammers provided by Haltdos or user defined threat intel
Bot Management	Anti-bot protection with Al classification and scoring of bots based on advanced browser fingerprinting
Anti-Automation Protection	Protection against known and 0-day bots, account takeover attempts, brute force attempts, scraping, reconnaissance, cloaking, etc
Mobile App Protection	Anti-Bot mobile SDK for Android & iOS for protecting mobile apps and communication between apps and web APIs
AV Scanning	Built-in AV scanner for malicious file upload. Support for ICAP integration for 3 rd party scanners
Minimize False Positives	Support for REGEX based whitelist rules and signature staging and deploy policies to minimize signature based false positives
HTTP Validations	Protocol validations, request normalization (encoding & evasion techniques) before inspection, managing security headers and cookies etc.
Policy Inspection	Policy validation such as HTTP methods, file extension, request size, etc
Blacklist / Whitelist	Support for temporary or permanent Blacklisting and Whitelisting based on IP, IP prefix, url, country, etc
Captcha Challenge	Support for JS or captcha challenge on suspicious user activity or known bots or malicious IPs
Rate Limiting	Rate Limit rules for implementing request, bandwidth or connection limits per source, IP prefix or user defined policy
API & WebSocket Protection	Built-in XML firewall, validation of XML / JSON / Ajax / SOAP / REST API requests and WebSocket requests
Security Breach Prevention	Built-in support for data leak prevention, response filtering for sensitive personal identifiable information
Tamper Proofing	Tamper rules for URL / parameter tamper protection, website defacement, hidden form field protection, cookie signing and encryption, etc.
Correlation Engine	Advanced correlation engine with support for custom correlation rules for detecting attack across user requests and sessions
Variables & Scripting	Support for user defined variables and scripts for building custom application specific security policy
Deception Technology	Implement decoys in web application to protect against advanced bots, profile attacks and trap attackers
Sensitive Data Masking	Support for Log Rules for masking sensitive information such as passwords in logs and events Protection against forceful browsing, access to predictable resources, unauthorized navigation with additional security enforcement with Two
Enforced Browsing	factor authentication (2FA)
Misc. Protection	Support for protection against buffer overflow attacks, man-in-the-middle attacks, blocking malware payload, buffer overflow, SQL, SSI, LDAP injection, etc
Enforce RFC Compliance	Protection against invalid HTTP requests
NAT & Routing	Support for client, server or full NAT, static routing for IPv4 & IPv6
CCI /TI C Management	Support for SSL v2/v3, TLS 1.0/1.1/1.2/1.3 offloading (and re-encryption) with custom cipher suites. Client certificate based authentication
SSL/TLS Management	also supported, proxy SSL/TLS connections
Load Balancing	Layer 4 & Layer 7 load balancing (HTTP, TCP, UDP, etc.)
Advanced Load Balancing	Content based load balancing with upstream rules
Load Balancing Algorithms	Round robin (RR), weighted round robin, minimum misses, persistent hash (IP, Cookie, Header or Argument), tuneable hash, least
	connections, least response time, least bandwidth, SNMP metrics such as CPU, RAM, etc.
Network Optimization HTTP Optimization	Support for TCP buffering, multiplexing & optimization, connection pools, TCP keep alive & timeouts Support for content compression (gzip or brotili) and caching. Content minification and acceleration for mobile clients
Virtual Contexts	Support for multiple virtual contexts along with resource allocation
Failover Management	Automatic failover & recovery. Support for marking servers up / down / backup
Health Check	Periodic server or server group health check and alerting via TCP, SSL, ICMP, SNMP, HTTP, DNS or custom script
Client Visibility	Embedding Real IP information in X-* headers, client cert information, etc
Redirection Rules	REGEX based redirection rules to rewrite URLs
Variable Rules	Support for embedding and using variables for A/B testing or custom load balancing
Script Rules	Embedding user defined custom code for advanced routing
Error Handling	Error rules for custom error handling
Content Transformation	Transformation rules for data manipulation and Header rules for add / edit or delete headers in request or response
Fingerprinting & Authentication	Advanced user and device fingerprinting (Browser, OS related features) for user profiling and device authentication
Performance Monitoring	Real User Metrics (RUM) for performance monitoring
L3 – L7 DDoS Protection	Protection against volumetric and low & slow DDoS attacks
Compliance	Enforces PCI DSS 2.0 section 6.6 and industry / regulatory standard security practices
API Security	Built-in API gateway for authentication, rate limiting, transformation, documentation and discovery

Version: v6.1

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