Understand Constant Constan

Base Models	HD-SFT-4100	HD-SFT-4600	HD-SFT-4620	HD-SFT-5100	HD-SFT-5400	HD-SFT-6200	
MITIGATION PERFORMANCE							
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	
WAF 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	
	22K (RSA 2K)	40K (RSA 2K)	192K (RSA 2K)	40K (RSA 2K)	96K (RSA 2K)	96K (RSA 2K)	
SSL/TLS Connections 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	
			10 14				
L7 Request per Second	750 K	3 M	-	1.2 M	2 M	4 M	
Max Concurrent Connections	24 M	24 M	200 M	56 M	96 M	160 M	
Induced Latency	< 1 milli-second						
HARDWARE SPECS							
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	256 GB SSD	2 TB SSD	512 GB SSD	1 TB SSD	2 TB SSD	
			Option available for F	AID or dual partition			
Additional Specs			and Hardware HSM for S e for FIPS-140-2 (additio	SL offloading & compre			
Form Foctor	111/211 Dack Mount Cor						
Form Factor	1U/2U Rack Mount Ser		170 0 101/ 50 11				
Power Supply		oly (Hot Swappable) AC	170-240V, 50 Hz				
Operating Temperature	0° – 40° C						
Humidity	8% - 95% (non-condens						
Hardware Virtualization	NA	upto 15	upto 25	upto 25	upto 30	upto 50	
		Hard Disk and Memo	bry can be customized	over the base model			
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	
	-	-	Z	-	-	-	
100 GE Ports	-				-	-	
		No. of ports ca	n be customized over t	ne 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	
Input/Output (USB)	2	2	2	2	2	2	
		-	-	-	-	-	
TECHNOLOGY, CERTIFICATION &		atform (EAL 2+ Cortified)				
Platform	Haltdos Platform – hdPl	atform (EAL 2+ Certified					
	Haltdos Platform – hdPl Signature with Threat I	ntelligence, Machine Lea	irning				
Platform Technology	Haltdos Platform – hdPl Signature with Threat I Unlimited applications.	ntelligence, Machine Lea Bandwidth capping base		Upgrade possible witho	ut hardware replacemen	t upto max	
Platform Technology License	Haltdos Platform – hdPl Signature with Threat I Unlimited applications. supported bandwidth	ntelligence, Machine Lea Bandwidth capping base on hardware	iming ed on configured license.	Upgrade possible witho	ut hardware replacemen	t upto max	
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Command Line Interface (CLI) Command Line Interface over SSH or console port API Integration Yes (XML or JSON) System Management IPMI 2.0 Compliant Logging Centralized logging of system, services, MIS, incidents 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	
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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	
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 Support for user defined Firewall Rules for REGEX based negative security model	
Virtual Patching 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	n
Malicious Source Protection Protection against TOR IP, Bad Reputation IP, dark IP, known Bots, proxies, spammers provided by Haltdos or user defined the	
Bot Management Anti-bot protection with AI classification and scoring of bots based on advanced browser fingerprinting	Cat IIIICI
Anti-Automation Protection Protection against known and 0-day bots, account takeover attempts, brute force attempts, scraping, reconnaissance, cloaking	a, etc
Mobile App Protection Anti-Bot mobile SDK for Android & iOS for protecting mobile apps and communication between apps and web APIs	g, cu
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	1 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	
Captha Challenge Support for IS or captcha challenge on suspicious user activity or known by 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 protection, response meaning for selected from the protection, cookie signing and end	rvintion 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	
Extension of the second provide a second provide the maximum consistence in the second provide a second prov	ment with Two
Enforced Browsing Factor authentication (ZFA)	mene with two
Support for protection against buffer overflow attacks man-in-the-middle attacks blocking malware payload, buffer overflow	SOL SST LDAP
Misc. Protection injection, etc	5QL, 551, LDAI
Enforce RFC Compliance Protection against invalid HTTP requests	
NAT & Routing Support for client, server or full NAT, static routing for IPv4 & IPv6	
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 a	uthentication
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 Palancian Alaxithms Round robin (RR), weighted round robin, minimum misses, persistent hash (IP, Cookie, Header or Argument), tuneable hash,	east
Load Balancing Algorithms connections, least response time, least bandwidth, SNMP metrics such as CPU, RAM, etc.	
Network Optimization Support for TCP buffering, multiplexing & optimization, connection pools, TCP keep alive & timeouts	
HTTP Optimization 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	
SSO Support for Single SignOn with multiple Auth type like Basic Auth, Form Auth, NTLM, LDAP, SAML, etc. under WAF Features.	
Port Mirroring Mirror traffic / specific traffic to another NIC port	

Version: v7.2

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