## **HALTDOS FALCON TECHSPECS**

Base Models	HD-FAL-4120	HD-FAL-4620	HD-FAL-5120	HD-FAL-5420	HD-FAL-6220	HD-FAL-6700
MITIGATION PERFORMANCE	-					
Throughput Range	upto 4 Gbps	upto 24 Gbps	upto 48 Gbps	upto 64 Gbps	upto 120 Gbps	upto 150 Gbps
Supported TCP Sessions DDoS Attack Flood Prevention Rate	1M – 5M	5M – 20M	Unlimite 10M – 30M	25M - 50M	30M - 80M	30M – 80M
DD03 Attack Flood Flevention Rate	22K (RSA 2K)	40K (RSA 2K)	40K (RSA 2K)	95K (RSA 2K)	95K (RSA 2K)	95K (RSA 2K)
SSL / TLS Connections per Second	15K (ECC)	25K (ECC)	25K (ECC)	48K (ECC)	48K (ECC)	48K (ECC)
SSL Throughput	4 Gbps	20 Gbps	40 Gbps	50 Gbps	100 Gbps	100 Gbps
TCP Connection Tracking	1M – 4M	4M – 10M	10M – 15M	10M – 25M	20M – 35M	20M – 35M
L4 Connection per Second	600 K	1.5 M	1.5 M	2 M	4 M	4.2 M
L7 Request per Second	1 M	3 M	7 M	10 M	15 M	18 M
Max Concurrent Connections	24 M	32 M	56 M	96 M	160 M	192 M
Induced Latency			< 50 microseco	onds (µs)		
Attack Detection Time			< 18s			
Attack Mitigation Time			< 10s			
HARDWARE SPECS						
Processor	Intel Xeon	Intel Xeon	Intel Xeon	Intel Xeon	Intel Xeon	Intel Xeon
CPU Cores	12	24	32	40	48	48
Memory	32 GB	64 GB	64 GB	96 GB	128 GB	128 GB
Hard Disk	256 GB SSD	512 GB SSD	1 TB SSD	2 TB SSD	2 TB SSD	2 TB SSD
Additional Specs		Built-in TPM Chip and	d Hardware HSM for SSI	L offloading & compres	sion optimization	
	111/211 Deals Mount Con		or FIPS-140-2 (additiona	al charge) or Non-FIPS	compliant HSIVI	
Form Factor Power Supply	1U/2U Rack Mount Sen	ver (19 inch mounting) bly (Hot Swappable) AC 1	70-240\/ 50 H-			
Operating Temperature	0° – 40° C	ny (not Swappable) AC T	10-2407, 30 112			
Uperating Temperature Humidity	8% - 95% (non-condens	sina)				
Inspection Ports		customer's requirements				
inspection Ports			nd Memory can be cu	stomized over the b	ase model	
INSPECTION PORTS						
1 GE Ports	8	8	4	-	-	-
10 GE Ports	2	4	4	8	8	-
25 GE Ports	-	-	-	-	-	-
40 GE Ports	-	-	2	2	4	4
100 GE Ports	-	-	-	-	-	2
		No. of por	ts can be customized o	over the base model		
OUT OF BAND PORTS						0
1 GE (RJ-45) Ports	2	2	2	2	2	2
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports	2	2	2 1	2	2	1
1 GE (RJ-45) Ports						
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+)	1	1	1 1	1 1	1	1 1
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB)	1 1 2	1	1	1	1	1
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) TECHNOLOGY, CERTIFICATION & SUPP	1 1 2 PORT	1 1 2	1 1	1 1	1	1 1
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) TECHNOLOGY, CERTIFICATION & SUPP Platform	1 1 2 PORT Haltdos Platform – hdPla	1 1 2 atform (EAL 2+ Certified)	1 1 2	1 1	1	1 1
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) TECHNOLOGY, CERTIFICATION & SUPP Platform Technology	1 2 2 PORT Haltdos Platform – hdPli Signature with Threat Ir	1 1 2 atform (EAL 2+ Certified) itelligence, Machine Lean	1 1 2	1 1 2	1 1 2	1 1 2
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) TECHNOLOGY, CERTIFICATION & SUPP Platform Technology Bandwidth License	1 2 PORT Haltdos Platform – hdPl Signature with Threat Ir Bandwidth capping on p	1 2 atform (EAL 2+ Certified) ntelligence, Machine Learr provided license. Upgrade	1 1 2 ning possible without hardwa	1 1 2	1 1 2	1 1 2
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) TECHNOLOGY, CERTIFICATION & SUPP Platform Technology Bandwidth Licenses Additional Licenses	1 2 PORT Haltdos Platform – hdPli Signature with Threat Ir Bandwidth capping on p Optional license for WAI	1 2 atform (EAL 2+ Certified) telligence, Machine Lean provided license. Upgrade F, LLB, GSLB, SLB & DN:	1 1 2 ning possible without hardwa S Firewall	1 1 2	1 1 2	1 1 2
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) TECHNOLOGY, CERTIFICATION & SUPP Platform Technology Bandwidth Licenses Additional Licenses Certification	1 2 2 PORT Haltdos Platform – hdPl: Signature with Threat Ir Bandwidth capping on ç Optional license for WAI FCC, ROHS, CE compli	1 2 atform (EAL 2+ Certified) telligence, Machine Learn provided license. Upgrade F, LLB, GSLB, SLB & DN iant, Common Criteria EA	1 1 2 ning possible without hardwa S Firewall	1 1 2	1 1 2	1 1 2
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) TECHNOLOGY, CERTIFICATION & SUPP Platform Technology Bandwidth License Additional Licenses Certification Support	1 2 2 20RT Haltdos Platform – hdPli Signature with Threat Ir Bandwidth capping on p Optional license for WAI FCC, ROHS, CE compli 24x7 Support with dedi	1 2 atform (EAL 2+ Certified) itelligence, Machine Lean provided license. Upgrade F, LLB, GSLB, SLB & DN: iant, Common Criteria EA cated Account Manager	1 1 2 ning possible without hardwa S Firewall	1 1 2	1 1 2	1 1 2
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) TECHNOLOGY, CERTIFICATION & SUPP Platform Technology Bandwidth Licenses Additional Licenses Certification Support Warranty	1 2 ORT Haltdos Platform – hdPli Signature with Threat Ir Bandwidth capping on p Optional license for WAH FCC, ROHS, CE compli 24x7 Support with dedi 1 year software and har	1 2 atform (EAL 2+ Certified) itelligence, Machine Lean provided license. Upgrade F, LLB, GSLB, SLB & DN: iant, Common Criteria EA cated Account Manager	1 1 2 ning possible without hardwa S Firewall	1 1 2	1 1 2	1 1 2
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) TECHNOLOGY, CERTIFICATION & SUPP Platform Technology Bandwidth License Additional Licenses Certification Support Warranty TAC Support	1 2 2 20RT Haltdos Platform – hdPli Signature with Threat Ir Bandwidth capping on p Optional license for WAI FCC, ROHS, CE compli 24x7 Support with dedi	1 2 atform (EAL 2+ Certified) itelligence, Machine Lean provided license. Upgrade F, LLB, GSLB, SLB & DN: iant, Common Criteria EA cated Account Manager	1 1 2 ning possible without hardwa S Firewall	1 1 2	1 1 2	1 1 2
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) TECHNOLOGY, CERTIFICATION & SUPP Platform Technology Bandwidth Licenses Additional Licenses Certification Support Warranty	1 2 ORT Haltdos Platform – hdPli Signature with Threat Ir Bandwidth capping on p Optional license for WAH FCC, ROHS, CE compli 24x7 Support with dedi 1 year software and har	1 2 atform (EAL 2+ Certified) ntelligence, Machine Learn provided license. Upgrade F, LLB, GSLB, SLB & DN: iant, Common Criteria EA cated Account Manager dware maintenance	1 1 2 ning possible without hardwa S Firewall	1 1 2	1 1 2	1 1 2
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) TECHNOLOGY, CERTIFICATION & SUPP Platform Technology Bandwidth Licenses Additional Licenses Certification Support Warranty TAC Support OPERATION MODE	1 2 2 20RT Haltdos Platform – hdPl Signature with Threat Ir Bandwidth capping on g Optional license for WAI FCC, ROHS, CE compli 24x7 Support with dedir 1 year software and har TAC support in India Transparent L2 or Inline	1 2 atform (EAL 2+ Certified) ntelligence, Machine Learn provided license. Upgrade F, LLB, GSLB, SLB & DN: iant, Common Criteria EA cated Account Manager dware maintenance	1 1 2 possible without hardwa S Firewall L 2+	1 1 2	1 1 2	1 1 2
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) TECHNOLOGY, CERTIFICATION & SUPP Platform Platform Technology Bandwidth Licenses Additional Licenses Certification Support Warranty TAC Support OPERATION MODE Network Operations	1 2 2 20RT Haltdos Platform – hdPl Signature with Threat Ir Bandwidth capping on g Optional license for WAI FCC, ROHS, CE compli 24x7 Support with dedir 1 year software and har TAC support in India Transparent L2 or Inline	1 2 atform (EAL 2+ Certified) telligence, Machine Lean provided license. Upgrade F, LB, GSLB, SLB & DN iant, Common Criteria EA cated Account Manager dware maintenance : L3 Stateless (Asymmetric) m	1 1 2 possible without hardwa S Firewall L 2+	1 1 2	1 1 2	1 1 2
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) TECHNOLOGY, CERTIFICATION & SUPP Platform Technology Bandwidth Licenses Additional Licenses Certification Support Warranty TAC Support OPERATION MODE Network Operations Stateful Mode	1 2 PORT Haltdos Platform – hdPla Signature with Threat Ir Bandwidth capping on p Optional license for WAI FCC, ROHS, CE compli 24x7 Support with dedit 1 year software and har TAC support in India Transparent L2 or Inline Stateful (Symmetric) or	1 1 2 atform (EAL 2+ Certified) ntelligence, Machine Lean provided license. Upgrade F, LLB, GSLB, SLB & DN: iant, Common Criteria EA F, LLB, GSLB, SLB & DN: cated Account Manager dware maintenance	1 1 2 possible without hardwa S Firewall L 2+	1 1 2	1 1 2	1 1 2
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) TECHNOLOGY, CERTIFICATION & SUPP Platform Technology Bandwidth License Additional Licenses Certification Support Warranty TAC Support OPERATION MODE Network Operations Stateful Mode Deployment Modes	1 2 ORT Haltdos Platform – hdPli Signature with Threat Ir Bandwidth capping on p Optional license for WAI FCC, ROHS, CE compli 24x7 Support with dedii 1 year software and har TAC support in India Transparent L2 or Inline Stateful (Symmetric) or Offline (SPAN port or FI	1 1 2 atform (EAL 2+ Certified) ntelligence, Machine Lean provided license. Upgrade F, LLB, GSLB, SLB & DN: iant, Common Criteria EA F, LLB, GSLB, SLB & DN: cated Account Manager dware maintenance	1 1 2 possible without hardwa S Firewall L 2+	1 1 2	1 1 2	1 1 2
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1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) TECHNOLOGY, CERTIFICATION & SUPP Platform Technology Bandwidth Licenses Additional Licenses Certification Support Warranty TAC Support OPERATION MODE Network Operations Stateful Mode Deployment Modes Supported Flow Ingestion IP Stack IP Fragmentation Jumbo Frames	1 2 ORT Haltdos Platform – hdPli Signature with Threat Ir Bandwidth capping on p Optional license for WAI FCC, ROHS, CE compil 24x7 Support with dedir 1 year software and har TAC support in India Transparent L2 or Inline Stateful (Symmetric) or Offline (SPAN port or Fl Netflow v5, Netflow v9, Dual IPv4 & IPv6 stack	1 2 atform (EAL 2+ Certified) ntelligence, Machine Lean provided license. Upgrade F, LLB, GSLB, SLB & DN: iant, Common Criteria EA cated Account Manager dware maintenance : L3 Stateless (Asymmetric) m low), Inline, Out-of-path sFlow, IPFIX	1 1 2 possible without hardwa S Firewall L 2+	1 1 2	1 1 2	1 1 2
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) TECHNOLOGY, CERTIFICATION & SUPP Platform Technology Bandwidth Licenses Additional Licenses Additional Licenses Certification Support Warranty TAC Support OPERATION MODE Network Operations Stateful Mode Deployment Modes Supported Flow Ingestion IP Stack	1 2 ORT Haltdos Platform – hdPli Signature with Threat Ir Bandwidth capping on p Optional license for WAI FCC, ROHS, CE compli 24x7 Support with dedii 1 year software and har TAC support in India Transparent L2 or Inline Stateful (Symmetric) or Offline (SPAN port or FI Netflow v5, Netflow v9, s Dual IPv4 & IPv6 stack IP defragmentation & TC Yes	1 1 2 atform (EAL 2+ Certified) ttelligence, Machine Lean provided license. Upgrade F, LLB, GSLB, SLB & DN: iant, Common Criteria EA cated Account Manager dware maintenance L3 Stateless (Asymmetric) m low), Inline, Out-of-path sFlow, IPFIX CP stream assembly t Only), Learning, Mitigatio	1 1 2 possible without hardwa S Firewall L 2+	1 1 2	1 1 2	1 1 2
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) TECHNOLOGY, CERTIFICATION & SUPP Platform Technology Bandwidth Licenses Additional Licenses Certification Support Warranty TAC Support OPERATION MODE Network Operations Stateful Mode Deployment Modes Supported Flow Ingestion IP Stack IP Fragmentation Jumbo Frames Mitigation Modes	1 2 ORT Haltdos Platform – hdPli Signature with Threat Ir Bandwidth capping on p Optional license for WAI FCC, ROHS, CE compil 24x7 Support with dedit 1 year software and har TAC support in India Transparent L2 or Inline Stateful (Symmetric) or Offline (SPAN port or FI Netflow v5, Netflow v9, s Dual IPv4 & IPv6 stack IP defragmentation & TC Yes Bypass, Record (Report VLAN, MPLS, GRE, L2T	1 1 2 atform (EAL 2+ Certified) itelligence, Machine Learn provided license. Upgrade F, LLB, GSLB, SLB & DN: iant, Common Criteria EA F, LLB, GSLB, SLB & DN: iant, Common Criteria EA cated Account Manager dware maintenance EL3 Stateless (Asymmetric) n low), Inline, Out-of-path sFlow, IPFIX CP stream assembly t Only), Learning, Mitigatio TP, GTP, IPinIP	1 1 2 possible without hardwa S Firewall L 2+	1 1 2	1 1 2	1 1 2
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) TECHNOLOGY, CERTIFICATION & SUPP Platform Technology Bandwidth Licenses Additional Licenses Additional Licenses Certification Support Warranty TAC Support OPERATION MODE Network Operations Stateful Mode Deployment Modes Supported Flow Ingestion IP Stack IP Fragmentation Jumbo Frames Mitigation Modes Tunnelling Protocols	1 2 ORT Haltdos Platform – hdPli Signature with Threat Ir Bandwidth capping on p Optional license for WAH FCC, ROHS, CE compli 24x7 Support with dedi 1 year software and har TAC support with dedi 1 year software and har TAC support in India Transparent L2 or Inline Stateful (Symmetric) or Offline (SPAN port or FI Netflow v5, Netflow v9, s Dual IPv4 & IPv6 stack IP defragmentation & TC Yes Bypass, Record (Report VLAN, MPLS, GRE, L2T BGP, OSFP, RIP v1, RIF	1 1 2 atform (EAL 2+ Certified) itelligence, Machine Learn provided license. Upgrade F, LLB, GSLB, SLB & DN: iant, Common Criteria EA iant, Common Criteria EA cated Account Manager rdware maintenance e L3 Stateless (Asymmetric) m low), Inline, Out-of-path sFlow, IPFIX CP stream assembly t Only), Learning, Mitigatio (P, GTP, IPinIP	1 1 2 possible without hardwa S Firewall L 2+	1 1 2	1 1 2	1 1 2
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) <b>TECHNOLOGY, CERTIFICATION &amp; SUPP</b> Platform Technology Bandwidth Licenses Additional Licenses Additional Licenses Certification Support Warranty TAC Support OPERATION MODE Network Operations Stateful Mode Deployment Modes Supported Flow Ingestion IP Stack IP Fragmentation Jumbo Frames Mitigation Modes Tunnelling Protocols Dynamic Routing Protocols	1 2 ORT Haltdos Platform – hdPk Signature with Threat Ir Bandwidth capping on p Optional license for WAI FCC, ROHS, CE compli 24x7 Support with dedid 1 year software and har TAC support with dedid 1 year software and har TAC support in India Transparent L2 or Inline Stateful (Symmetric) or Offline (SPAN port or FI Netflow v5, Netflow v9, Dual IPv4 & IPv6 stack IP defragmentation & TC Yes Bypass, Record (Report VLAN, MPLS, GRE, L2T BGP, OSFP, RIP v1, RIF Support for link bunding	1 1 2 atform (EAL 2+ Certified) telligence, Machine Lean provided license. Upgrade F, LB, GSLB, SLB & DN: lant, Common Criteria EA cated Account Manager rdware maintenance EL3 Stateless (Asymmetric) m low), Inline, Out-of-path sFlow, IPFIX CP stream assembly t Only), Learning, Mitigation TP, GTP, IPinIP 2 v2 g via LACP	1 1 2 ning possible without hardwa S Firewall L 2+ node node	1 1 2 are replacement upto n	1 1 2 nax supported bandwidt	1 1 2
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) <b>TECHNOLOGY, CERTIFICATION &amp; SUPP</b> Platform Technology Bandwidth Licenses Additional Licenses Certification Support Warranty TAC Support OPERATION MODE Network Operations Stateful Mode Deployment Modes Supported Flow Ingestion IP Stack IP Fragmentation Jumbo Frames Mitigation Modes Tunnelling Protocols Dynamic Routing Protocols Dynamic Routing Protocols	1 2 ORT Haltdos Platform – hdPk Signature with Threat Ir Bandwidth capping on p Optional license for WAI FCC, ROHS, CE compli 24x7 Support with dedid 1 year software and har TAC support with dedid 1 year software and har TAC support in India Transparent L2 or Inline Stateful (Symmetric) or Offline (SPAN port or FI Netflow v5, Netflow v9, Dual IPv4 & IPv6 stack IP defragmentation & TC Yes Bypass, Record (Report VLAN, MPLS, GRE, L2T BGP, OSFP, RIP v1, RIF Support for link bunding	1 1 2 atform (EAL 2+ Certified) itelligence, Machine Learn provided license. Upgrade F, LLB, GSLB, SLB & DN: iant, Common Criteria EA iant, Common Criteria EA cated Account Manager rdware maintenance e L3 Stateless (Asymmetric) m low), Inline, Out-of-path sFlow, IPFIX CP stream assembly t Only), Learning, Mitigatio (P, GTP, IPinIP	1 1 2 ning possible without hardwa S Firewall L 2+ node node	1 1 2 are replacement upto n	1 1 2 nax supported bandwidt	1 1 2
1 GE (RJ-45) Ports Console (RS232/RJ45) Ports HA Ports (RJ-45/SFP/SFP+) Input/Output (USB) <b>TECHNOLOGY, CERTIFICATION &amp; SUPP</b> Platform Technology Bandwidth Licenses Additional Licenses Certification Support Warranty TAC Support OPERATION MODE Network Operations Stateful Mode Deployment Modes Supported Flow Ingestion IP Stack IP Fragmentation Jumbo Frames Mitigation Modes Tunnelling Protocols Dynamic Routing Protocols Dynamic Routing Protocols	1 2 ORT Haltdos Platform – hdPk Signature with Threat Ir Bandwidth capping on p Optional license for WAI FCC, ROHS, CE compli 24x7 Support with dedid 1 year software and har TAC support with dedid 1 year software and har TAC support in India Transparent L2 or Inline Stateful (Symmetric) or Offline (SPAN port or FI Netflow v5, Netflow v9, Dual IPv4 & IPv6 stack IP defragmentation & TC Yes Bypass, Record (Report VLAN, MPLS, GRE, L2T BGP, OSFP, RIP v1, RIF Support for link bunding	1 1 2 atform (EAL 2+ Certified) telligence, Machine Lean provided license. Upgrade F, LB, GSLB, SLB & DN: lant, Common Criteria EA cated Account Manager rdware maintenance EL3 Stateless (Asymmetric) m low), Inline, Out-of-path sFlow, IPFIX CP stream assembly t Only), Learning, Mitigation TP, GTP, IPinIP 2 v2 g via LACP	1 1 2 ning possible without hardwa S Firewall L 2+ node node	1 1 2 are replacement upto n	1 1 2 nax supported bandwidt	1 1 2
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API Integration         Yes (XML or JSON)           System Management         IPMI 2.0 Compliant           Audit Trail, Logging & Recovery         Centralized logging of system, services, MIS, incidents. Built-in MIS with policy recovery           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 in PDF or Excel           RBAC Administration         Configurable user profiles with role based access control           Automatic or manual backup and restore. CLI tool for pushing current snapshot to Haltdos Cloud for diagnostics           Snapshots & Cloud Sync         Automatic and/or manual policy snapshot for diagnosis, policy creation & enforcement using AI/ML via Haltdos cloud           Policy Management         On the fly configuration updates on mitigation appliances           Events / Alerts         Detailed event and alert reporting on attack, health, etc.           Network Forensic         Network forensic and packet capture capability for traffic examination and diagnosis           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
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 in PDF or Excel           RBAC Administration         Configurable user profiles with role based access control           Backup & Restore         Automatic or manual backup and restore. CLI tool for pushing current snapshot to Haltdos Cloud for diagnostics           Snapshots & Cloud Sync         Automatic and/or manual policy snapshot for diagnosis, policy creation & enforcement using Al/ML via Haltdos cloud           Policy Management         On the fly configuration updates on mitigation appliances           Events / Alerts         Detailed event and aler reporting on attack, health, etc.           Network Forensic         Network forensic and packet capture capability for traffic examination and diagnosis           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
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DDOS MITIGATION FEATURES
Comprehensive Protection   Layer 3 to Layer 7 protection covering Network, Protocol, Application, Reflection / Amplification and 0-day DDoS attacks
DDoS Detection & Mitigation A Attack detection & mitigation in less than 18s and 10s respectively
BlockActions Drop Packet, Terminate Connection (RST), Blacklist (temporary or permanent), Send Challenge (TCP, HTTP, DNS), Rate Limiting
Hybrid DDoS Integration Support for integration with Haltdos Cloud Scrubbing or ISP clean pipe services
Boo Integration     Support for both inbound and outbound traffic protection
Deep Packet Inspection against malformed packets (TCP, UDP, ICMP, Ping of death, DNS, HTTP, SIP, SNMP, IPv4, IPv6, Fragmented packets, etc.)
Enforce RFC Compliance Protection against misbehaving clients sending invalid or out of state packets
Bot Protection Automatic detection and blocking of bot rafig with support for manual bot policy
Behaviour Analysis Network behaviour analysis for anomaly detection and packet scoring technology
Port Mirrori traffic / specific traffic to another NIC port
Multiple Security Profiles Support for multiple security profiles for enforcing different policy for different sub-networks (Src, Dst IP Prefix, VLAN) Default Global security
profile
Rate Limit & QoS Management Rate limit capability for bandwidth and QoS management
Blacklist / Whitelist Support for temporary or permanent Blacklisting and Whitelisting based on IP, IP prefix, domain, country, etc
Malicious Source Protection Protection against TOR IP, Bad Reputation IP / domain, dark IP, malicious Bots, proxies, resolvers, etc
Custom Signatures Support for user defined custom rules with support for REGEX and byte matching
SYN Flood Protection TCP SYN flood protection with SYN Proxy and connection aging
Challenge & Response Support for TCP, HTTP, DNS challenge and response for validation of traffic from suspicious sources Connection Based Protection Protection against TCP connection DDoS attacks such as sockstress, connection / src, zombie flood, SSL renegotiations, etc
DNS Protection Built-in DNS firewall capability for protecting DNS infrastructure against DNS DDoS attacks (Water Torture, NXDomain, etc.)
L7 DDoS Protection Protection against low & slow attacks such as Slowloris, R.U.D.Y., slow HTTP GET / POST, etc
Machine Learning Protection Automatic learning counter measures and dynamic signature creation upon attack detection
Signatures for Known Vulnerabilities Built-in rules for known vulnerabilities (server, web, mail, FTP, SIP, SQL, DNS, IPS Signatures etc.)
LLB FEATURES (ADDITIONAL LICENSING)
Load Balancing & Path Selection Round robin (RR), weighted round robin, minimum packet loss, persistent hash, tuneable hash, least connections, least response time, least bandwidth, etc. Path selection based on jitter, packet loss, latency, etc.
NAT Rules Support for static NAT, dynamic NAT, SNAT, DNAT, FAT, Full NAT
Health Monitoring Link monitoring with instant failover (<1s). Support for TCP, HTTP, DNS, ICMP or script-based monitoring. Multiple monitors with AND / OR
combination
Routing Rules Custom rules for Static and Policy based routing
Dual Stack Lite Support for NAT 46 / 64 and DNS 46 / 64 with DNS Proxy
Traffic Shaping Traffic shaping and QoS on inbound and outbound links
GSLB FEATURES (ADDITIONAL LICENSING)
Global Load Balancing Routing traffic across multiple data centers based on health checks
WAN Load Balancing Outbound WAN link selection based on link health
Load Balancing Algorithms Support for Least connection, Proximity, Round Robin, Weighted RR, Persistent Hash, Geo, etc.
Operation Mode Option for Authoritative or Recursive operational modes with support for various DNS record types such as A, AAAA, MX, TXT, PTR, etc.
Routing Rules Custom rules for Static and Policy based routing
Network Mode Support DNS over HTTP, UDP, TCP & SSL as well as DNSSEC
DNS Firewall Protecting DNS infrastructure from bot attacks, data exfiltration attacks, RPZ policy
Blacklist / Whitelist Support for permanent Blacklisting and Whitelisting based on IP, IP prefix, domain, country, etc.
Custom Signatures Support for user defined custom rules with support for pattern, suffix, domain, etc.

## Version: v6.1

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