## **Chaltdos** HALTDOS SWIFT TECHSPECS

MULLION FASIONALING         Unit 2000	Base Models	HD-SFT-4100	HD-SFT-4600	HD-SFT-4620	HD-SFT-5100	HD-SFT-5400	HD-SFT-6200
Lit Throughout         reple 4 gins         reple 3 gins <threple 3="" gins<="" th="">         reple 3 gins</threple>							
WWT Thronghot         Van Ord Org         Van Org	L4 Throughput	upto 5 Gbps	upto 24 Gbps	upto 24 Gbps	upto 48 Gbps	upto 72 Gbps	upto 120 Gbps
SS The scapes         4 40s         25 Gas         30 40s         4 50s         30	L7 Throughput	upto 4 Gbps	upto 20 Gbps	upto 20 Gbps	upto 40 Gbps	upto 60 Gbps	upto 100 Gbps
Convenient Proceedings         4 4 6 gs         20 6 6 gs         27 6 gs         24 6 0 gs         25 6 0 gs	WAF Throughput	upto 4 Gbps	upto 20 Gbps	upto 20 Gbps	upto 40 Gbps	upto 60 Gbps	upto 100 Gbps
Decompose         Solgia         200gia         200gia         200gaa         95 (66 a)         200gaa           W/101 Connection per Vocan         25 (66 a)         25 (	SSL Throughput	4 Gbps	20 Gbps	50 Gbps	40 Gbps	50 Gbps	100 Gbps
SQ/112 Connections per Serving         SZ/125	Compression Throughput	4 Gbps	20 Gbps	37 Gbps	24 Gbps	37 Gbps	66 Gbps
Skill Scale         Skill Skill		5 Gbps			· · · · · · · · · · · · · · · · · · ·	54 Gbps	
Skill Scale         Skill Skill		22K (RSA 2K)	40K (RSA 2K)	40K (RSA 2K)	40K (RSA 2K)	96K (RSA 2K)	96K (RSA 2K)
Section         Section <t< td=""><td>SSL/TLS Connections per Second</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	SSL/TLS Connections per Second						
IA Consistion per Second         436 k         986 k         1.2.4 k         1.5.8 k         31M         4.2.9 k           IMARCADE PER Second         200 k         32M         3.0 k         3.0 k         100 k         100 k           IMARCADE PER Second         200 k         32M         1 mill secon         100 k         100 k <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
JPRequerit per source         JPA         JPA <thjpa< th="">         JPA         <thjpa< th=""></thjpa<></thjpa<>	L4 Connection per Second	480 K	960 K		1.5 M		4.2 M
Interval         c + 1 millions         i et al Xoon         i et al Xoon <td>L7 Request per Second</td> <td>750 K</td> <td>3 M</td> <td>3 M</td> <td>7 M</td> <td>10 M</td> <td>15 M</td>	L7 Request per Second	750 K	3 M	3 M	7 M	10 M	15 M
Interval         c + 1 millions         i et al Xoon         i et al Xoon <td></td> <td></td> <td></td> <td></td> <td>56 M</td> <td></td> <td>1</td>					56 M		1
Processorinit koonInit koonInit koonInit koonInit koonInit koonCPU Ceres8206432604246432.6 db32.6 dbName16.6 db22.6 db S0Car S0 dbCar S0 db12.1 db24.6 db21.6 db21.6 dbAddinard spect20.1 db10.1 db10.1 db10.1 db21.1 db21.1 db21.1 dbRem11.1 db2.6 db2.6 db2.6 db2.6 db2.7 db21.1 db <td>Induced Latency</td> <td></td> <td></td> <td>&lt; 1 milli-</td> <td>second</td> <td></td> <td></td>	Induced Latency			< 1 milli-	second		
Processorinit koonInit koonInit koonInit koonInit koonInit koonCPU Ceres8206432604246432.6 db32.6 dbName16.6 db22.6 db S0Car S0 dbCar S0 db12.1 db24.6 db21.6 db21.6 dbAddinard spect20.1 db10.1 db10.1 db10.1 db21.1 db21.1 db21.1 dbRem11.1 db2.6 db2.6 db2.6 db2.6 db2.7 db21.1 db <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
CPU Cores         8         30         64         32         40         64           Netrony 10 66         52 (6 500         25 (6 500         25 (6 500         25 (6 500         27 (5 50)         27 (5 50)           Addition Spece         Set in MAChan Alexan Channe Alex		Intel Yeen	Intel Voon	Intel Voon	Intel Voon	Intel Voon	Intel Voon
Memory         10.09         23.09         22.09         0.408         128.09         278.09           Held Bikk         256.08.50         256.08.50         178.00         278.09<							
Net Day         25 Cric 8 SO         21 Cric 8 SO         51 Cric 8 SO         1 TR SO         2 TR SO           Addition Spece         Builts TPM Crip and Tardebare ISM Dr SS. (Tr Double Lastation - Ballable of Info FSA-D2 (LastAtobare) ESM Dr SS. (Tr Double LastAtob Audible of Info FSA-D2 (LastAtobare) ESM Dr SS. (Tr Double LastAtob Audible of Info FSA-D2 (LastAtobare) ESM Dr SS. (Tr Double LastAtob Audible of Info FSA-D2 (LastAtobare) ESM Dr SS. (Tr Double LastAtobare) ESM Dr SSS. (Tr Double LastAtobare) ESM Dr SS. (Tr Double LastAtob		-	-				
Image: International State InterNational St	·						
Additoxi disc.         Builster TMA Objand Hadeame HSM for SS. differences impression appriater.           Commit Commi	Hard Disk	256 GB SSD	256 GB SSD			1 TB SSD	2 TB SSD
Additional Carry Lock       Additional Carry							
Total         JULD BAK Mount Same (J and Announcing)           Specing Emperation         OP - of C           Operating Emperation         OP - of C         Specing Emperation         OP - of C           Number of D         Specing Emperation         OP - of C         Upport D         Upport D           Number of D         Specing Emperation         Specing Emperation         Upport D         Upport D           Number of D         Specing Emperation         Specing Emperation         Upport D         Upport D           Number of D         Specing Emperation         Specing Emperation         Upport D         Upport D           Number of D         Specing Emperation         Specing Emperation         Specing Emperation         Specing Emperation           Number of D         Specing Emperation         Specing Emperation         Specing Emperation         Specing Emperation         Specing Emperation           Other Specing Emperation         Specing Emperation         Specing Emperation         Specing Emperation         Specing Emperation           Other Specing Emperation         Specing Emperation         Specing Emperation         Specing Emperation         Specing Emperation           Other Specing Emperation         Specing Emperation         Specing Emperation         Specing Emperation         Specing							
Openantial Power Supply         Beadmants Power Supply (bit Supply (bi	Additional Specs	1	available for FIP:	5-140-2 (additional charge)	or Non-FIPS compliant H	SM	
Openantial Power Supply         Beadmants Power Supply (bit Supply (bi	Form Factor	1U/2U Rack Mount Serve	r (19 inch mounting)				
Operating Temperature Name         OP - of C         C <thc< th="">         C         C        &lt;</thc<>			0	40V. 50 Hz			
Number         Bit non-condensing         upto 13         upto 25							
NA         upto 15         upto 25         upto 25         upto 30           NSECTION PORTS         Hard Disk and Memory can be customized over the base model         .         .           10.6F Ports         8         -         -         .         .           10.0F Ports         -         2         4         4         8         8           10.0F Ports         -         2         2         2         2         4           40.0F Ports         -         2         2         2         2         4           40.0F Ports         -         -         2         <			1				
Hard Disk and Memory can be outomized over the base model           INSPECTION PORTS         8         8         -	·	1 0		unto 2E	unto 2F	unto 20	upto 50
NSPECTION PORTS         Image: Control of the second s		NA				upt0 30	upto 50
10 GF Ports         8         8         - <t< td=""><td></td><td></td><td>Hard Disk and Werro</td><td>bry can be customized o</td><td>ver the base model</td><td></td><td></td></t<>			Hard Disk and Werro	bry can be customized o	ver the base model		
100 GF Ports         -         2         4         4         8         8           400 GF Ports         -         -         2         2         4           100 GF Ports         -         -         2         2         4           000 GF Ports         -         -         2         2         4           000 GF Ports         -							
1         -							
440 GE Ports         -         <		-	2	4	4		8
100 GE Parts         No.         No.         No.         No.           OUT OF BAND PORTS         No. Of ports can be customized over the base model         No.         No.           OUT OF BAND PORTS         2 <td< td=""><td>25 GE Ports</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></td<>	25 GE Ports	-	-	-	-	-	-
No. of ports can be customized over the base model         Image: Control (RIA45) Ports         2	40 GE Ports	-	-	2	2	2	4
OUT OF BAND PORTS         Image: Console (R522)/R51 Ports         2	100 GE Ports	-	-	-	-	-	-
1 SE (RH-45) Ports         2         2         2         2         2         2         2         2         2         2         1			No. of ports ca	n be customized over th	ne base model		
Conside (RA32/RM45) Ports         1 <td>OUT OF BAND PORTS</td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td>1</td>	OUT OF BAND PORTS		,				1
Conside (RA32/RM45) Ports         1 <td>1 GE (RI-45) Ports</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td>	1 GE (RI-45) Ports	2	2	2	2	2	2
IM Ports (RL-SS/EP/SIP-1)       1       1       1       1       1         Inter/Colpany (USB)       2 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Imped/04tpter     2	, , ,						
TECHNOLOGY, CERTIFICATION & SUPPORT       Platform         Platform       Platform         Platform       Platform         Certification       FCC, ROHS, CE confident         Ucense       Unimited applications. Bandwidth capping based on onfigured license. Upgrade possible without hardware replacement upto max supported bandwidth on hardware         Certification       FCC, ROHS, CE compliant, Common Criteria EAL 2*         Support       24/or Support with dedicated Account Manager         Warrany       1 year software and hardware maintenance. Additional changes for extended warranty         Training       OPM driven thands-on training         TAC Support       TAC Support in India         OPERATION MODE       Inline Reverse Proxy Inline Bridge, Inline Router Mode, Inline 12 Transparent, Offline         Proxy or Direct Server Return       1-Am or nAm         Binding       Inmediate or Delayed binding         Witruel Matrix Architecture       Yes         Unimet Reverse Proxy inline Bridge, Inline Router Arces New Return       1-Am or nAm         Binding       Internet Server Return       1-Am or nAm         <							1
Platform         Haltdos Platform         Healtdos Platform         Healtdos Platform           Technology         Signature with Treat intelligence, Machine Learning.         Unlimited applications. Bandwidth caping based on configured license. Upgrade possible without hardware replacement upto max supported bandwidth on thardware           Certification         FCE, ONKY, EC compliant, Common Criteria EAL 2+           Aax7 Support         Java Support to Marager           Warrantin         1 years of dimere maintenance. Additional changes for extended warranty           OPERATION MODE         Teck Support in India           OPERATION MODE         Inline Reverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline           Network Operations         Inline Reverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline           Proxy or Direct Server Return         Investigate or Delayde Bridge, Inline Router Mode, Inline L2 Transparent, Offline           Web Socket Support         Insc.         Insc.           Web Socket Support         Insc.         Insc.           Web Socket Support         Insc.         Insc.           Wirual Mattria Architecture         Yes         Yes           Wirual Mattria Architecture         Yes         Yes           Mitigation Modes         Brypass, Record (Report Only), Learning, Mitigation (Block and Report)         Biock Arctins      <			2	2	2	2	2
Technology         Signature with Threat Intelligence, Machine Learning           Uninitied applications, Bandwidth capping based on configured license. Upgrade possible without hardware replacement upto max supported bandwidth on hardware           Certification         FC, ROYS, CE compliant, Common Criteria EAL 2+           AzX Support Vith declared Account Manager         1           Warranty         1 year software and hardware maintenance. Additional changes for extended warranty           Training         CPEM Arrows hands, on training           TAC Support In Tealing         Text support in India           OPERATION MODE         Inline Roverse Proxy, Inline Bridge, Inline Rover Mode, Inline L2 Transparent, Offline           Inline Modes         Proxy or Direct. Server Return           Deployment Modes         I-Arm or nArm           Inline Roverse Proxy, Inline Bridge, Inline Roverse for Struct         Dual IPv4 & IPv6 stack           Web Sockt Structure         Vistual Matrix Architecture         Yes           User Sockt Structure         Yes         Direct Access Mode         Yes           Direct Access Mode         Proxy or Classer Return         Support for VLAN, VLAN, Link Agregation & Trunking (LACP)           Dynamic Routing Prox Return         Yes         Trunking (LACP)           Dynamic Routing Prox Return         Support for VLAN, VLAN, Link Agregregation & Trunking (LACP)           Dy	TECHNOLOGY, CERTIFICATION & S	UPPORT					
Linkinsted applications. Bandwith capping based on configured license. Upgrade possible without hardware replacement upto max supported           Certification         FCC, ROHS, CE compliant, Common Criteria EAL 2+           Support         2Av7 Support with dedicated Account Manager           Warrant         1 year software and hardware maintenance. Additional changes for extended warranty           Training         OEM driven hands-on training           OEM driven hands-on training         DEM driven hands-on training           Network Operations         Inline Reverse Proxy, Inline Bridge, Inline Router Mode, Inline 12 Transparent, Offline           Inline Reverse Proxy, Inline Bridge, Inline Router Mode, Inline 12 Transparent, Offline         Inline Reverse Proxy, Inline Bridge, Inline Router Mode, Inline 12 Transparent, Offline           Inline Routes         Proxy or Direct Server Return         Inline Reverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline           Inline Routes         Inline Reverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline         Inline Routes           Web Socket Support         Yes         Yes         Yes           Web Socket Support         Yes         Yes         Yes           Writer Access Mode         Yes         Support for YLAN, VLAN, UnA, UnA, UnA, UnA, UnA, UnA, UnA, UnA	Platform	Haltdos Platform – hdPlat	form (EAL 2+ Certified)				
Ideems         bandwidth on hardware           Certification         FCCR, NDS, CE compliant, Common Cirteria EAL 2-           Support         24x7 Support with dedicated Account Manager           Warranty         1 year software and hardware maintenance. Additional changes for extended warranty           Training         OEM driven hands-on training.           Training         OEM driven hands-on training.           TAC Support         TAC Support on training.           OPERATION MODE         Inline Reverse Proxy, Inline Ridge, Inline Router Mode, Inline L2 Transparent, Offline           Inline Infine Mode         Proxy or Direct Server Return           Deployment Modes         1-Arm or nArm           Binding         Immediate or Delayed binding           Web Socket Support         Yes           Virtual Matrix Architecture         Yes           Web Socket Support         Yes           Binet Account         Yes           Binet Access         Proxy, NUL Riv Z, Support or VLNN, VLNA, Link Aggregation & Trunking (LACP)           Myttal Matrix Architecture         Yes           Binet Access         Support for VLAN, WLAN, Link Aggregation & Trunking (LACP)           Myttal Matrix Architecture         Yes           Binet Access         Sandalon or Centralized management (MA or apaliance) with Haltdos Hawk	Technology	Signature with Threat Inte	elligence, Machine Learning				
Ideems         bandwidth on hardware           Certification         FCCR, NDS, CE compliant, Common Cirteria EAL 2-           Support         24x7 Support with dedicated Account Manager           Warranty         1 year software and hardware maintenance. Additional changes for extended warranty           Training         OEM driven hands-on training.           Training         OEM driven hands-on training.           TAC Support         TAC Support on training.           OPERATION MODE         Inline Reverse Proxy, Inline Ridge, Inline Router Mode, Inline L2 Transparent, Offline           Inline Infine Mode         Proxy or Direct Server Return           Deployment Modes         1-Arm or nArm           Binding         Immediate or Delayed binding           Web Socket Support         Yes           Virtual Matrix Architecture         Yes           Web Socket Support         Yes           Binet Account         Yes           Binet Access         Proxy, NUL Riv Z, Support or VLNN, VLNA, Link Aggregation & Trunking (LACP)           Myttal Matrix Architecture         Yes           Binet Access         Support for VLAN, WLAN, Link Aggregation & Trunking (LACP)           Myttal Matrix Architecture         Yes           Binet Access         Sandalon or Centralized management (MA or apaliance) with Haltdos Hawk		Unlimited applications, E	andwidth capping based o	n configured license. Upgra	de possible without hardw	are replacement upto max	supported
Certification       FCC, ROHS, CE compliant, Common Criteria EA1.2+         Support       24x7 Support vith dedicated Account Manager         Warranty       1 year software and hardware maintenance. Additional changes for extended warranty         Training       OEM driven fands-on training         OEM driven fands-on training       OEM driven fands-on training         OPERATION MODE       TACS support in India         OPERATION MODE       Inline Reverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline         Inline Rodes       Proxy or Direct Server Return         Deployment Kode       14.4m or n-Arm         Binding       Immediate or Delayed binding         Immediate or Delayed binding       Immediate or Delayed binding         Web Socket Support       Ves         OfFictual Matrix Architecture       Ves         With Modes       Support for VLAN, VLAN, Link Aggregation & Trunking (LACP)         Drivect Access Mode       Support for VLAN, VLAN, Link Aggregation & Trunking (LACP)         Dray       Networking       Support for VLAN, VLAN, Link Aggregation & Trunking (LACP)         Multiple Appliance       N+ 1.Active - Active or Active angement and HA appliances for state synchronization         Multiple Appliances       N+ 1.Active - Active or Act	License			0.			
24/2 Support with dedicated Account Manager         Warratty       1 year software and hardware maintenance. Additional changes for extended warranty         OPE ATION MODE       TAC Support in India         OPERATION MODE       Inline Reverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline         Inline New Serverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline       Inline New Serverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline         Inline New Serverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline       Inline New Serverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline         Inline New Serverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline       Inline New Serverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline         Inline New Serverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline       Inline New Serverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline         Internet Serverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline       Inline New Serverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline         Web Sock Exopport       Internet Reverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline       Internet New Serverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline         Web Sock Exopport       Yes       Internet Accost Mode       Yes	Certification						
Warranty       1 year software and hardware maintenance. Additional changes for extended warranty         Taking       OEM driven hands-on training         Tak Support       Takesupport in India         OPERATION MODE       Inline Reverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline         Inline Modes       Proxy or Direct Server Return         Deployment Modes       1-Am or n-Am         Immediate or Delayed binding       Immediate or Delayed binding         Immediate or Delayed binding       Dual IPVA & IPV6-Stack         Virtual Matrix Architecture       Yes         Virtual Matrix Architecture       Yes         Virtual Matrix Architecture       Yes         Direct Access Mode       Yes         Dognet for VLAN, VXLAN, Link Aggregation & Trunking (LACP)       Drop Request, Terminate Connection or Session, Blackist (temporary or permanent), Send Challenge (Captcha, JavaScript), Rate Limiting or Tarib.         HICH AVAIL/ABILITY       N*1 Active - Active or Active - Passive (VRRP)         Management Modes       Secure Communication between centralized management and HA appliances for state synchronization         INTECRATION FEATURES       Support							
Training       OEM driven hands-on training         TAC Support       TAC support in India         OPERATION MODE       Inline Reverse Proxy, Inline Bridge, Inline Router Mode, Inline 12 Transparent, Offline         Inline Modes       Proxy or Direct Server Return         Deployment Modes       1.4m or n-Am         Binding       Immediate or Delayed binding         IP Stack       Dual IP4 & IP-6 stack         HTTP Protocoic       HTTP 0.9/L0/1.1/2.0 with translation (all versions of HTML, XHTML supported)         Web SockE Support       Yes         Other Achitecture       Yes         Other Achitecture       Yes         Mitigation Modes       Bypass, Record (Report Only), Learning, Mitigation (Block and Report)         Dynamic Routing Protocols       BGP, OSPP, RIP VL, RIP V2         Networking       Support for VLAN, VLAN, Link Aggregation & Trunking (LACP)         Drop Request, Terminate Connection or Session, Blacklist (temporary or permanent), Send Challenge (Captcha, JavaScript), Rate Limiting or Tarpit.         HIGH AVAIL ABILITY       N=1 Active - Active or Active - Passive (VRBP)         Standatione / Centralized Management (WM or appliance) with Halidos Hawk       Secure Communication between centralized management and HA appliances for state synchronization         INTEGARTION FEATURES       Integration with 3 <sup>erg</sup> party Threat Intelligence [T] feeds         Stop							
TAC Support       TAC support         OPERATION MODE       Inline Reverse Proxy, Inline Bridge, Inline Router Mode, Inline 12 Transparent, Offline         Inline Modes       Proxy or Direct Server Return         Deployment Modes       I-Am or n-Am         Binding       Immediate or Delayed binding         Instructure       Direct Server Return         Deployment Modes       I-Am or n-Am         Binding       Immediate or Delayed binding         Instructure       Vest         Virtual Matrix Architecture       Yes         Otreat Access Mode       Yes         Direct Access Mode       Yes         Mitigation Motes       Support for VLAN, VXLAN, Link Aggregation & Trunking (LACP)         Dynamic Routing Protocols       Bypos, Record (Report Only), Learning, Mitigation (Block and Report)         Block Actions       Support for VLAN, VXLAN, Link Aggregation & Trunking (LACP)         Drop Request, Terminate Connection or Session, Blacklist (temporary or permanent), Send Challenge (Captcha, JavaScript), Rate Limiting or Tarpit         HICH AVAILABILICY       N+1 Active - Active or Active - Passive (VRRP)         Multiple Appliances       Standalone / Centralized Management (Md or appliance) with Haltdos Hawk         Secure communication       Secure communication between centralized management and HA appliances for state synchronization         IN							
OPERATION MODE         Initia Reverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline           Network Operations         Inline Reverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline           Deployment Modes         1-Arm or n-Arm           Binding         Immediate or Delayed binding           Immediate or Delayed binding         Immediate or Delayed binding           Web Socket Support         Yes           Outal IV-4 & IPV-5 stack         Immediate or Delayed binding           Wirtual Matrix Architecture         Yes           Olirect Access Mode         Yes           Olirect Access Mode         Yes           Networking         Support for VLAN, VLAN, Link Aggregation & Trunking (LACP)           Dynamic Routing Protocols         BGP, OSFP, RIP VI, RIP V2           Networking         Support for VLAN, VXLAN, Link Aggregation & Trunking (LACP)           Drop Request, Terminate Connection or Session, Blacklist (temporary or permanent), Send Challenge (Captcha, JavaScript), Rate Limiting or Tarpit           Multiple Appliances         N + 1 Active - Active or Active - Passive (VRRP)           Standalone / Centralized Management (VM or appliance) with Haltdos Hawk           Secure communication         Secure communication           Standalone / Centralized Management (VM or appliance) with Haltdos Hawk           Secure communication			111116				
Network Operations         Inline Reverse Proxy, Inline Bridge, Inline Router Mode, Inline L2 Transparent, Offline           Inline Modes         Proxy or Direct Server Return           Deployment Modes         1.4m or n.4m           1.4m or n.4m         Manual Server Return           0.1mmediate or Delayed binding         Immediate or Delayed binding           1.1mmediate or Delayed binding         Direct Access Mode           0.11P Stack         Dual IPVA & IPVo Stack           1.1mmediate or Delayed binding         Yes           0.1mmediate Architecture         Archite Archite		TAC Support In India					
Inline Modes       Proxy or Direct Server Return         Deployment Modes       1.4rm or nArm         Immediate or Delayed binding       Immediate or Delayed binding         IP Stack       Dual IP4 & IP-6 stack         HTTP Protocols       HTTP 0.9/1.0/1.1/2.0 with translation (all versions of HTML, XHTML supported)         Web Socket Support       Yes         Direct Access Mode       Yes         Direct Access Mode       Bypass, Record (Report Only), Learning, Mitigation (Block and Report)         Dynamic Routing Protocols       BGP, OSPP, RP V1, KIP v2         Note Support for VLAN, VLAN, Link Aggregation & Trunking (IACP)       Drop Request, Terminate Connection or Session, Blacklist (temporary or permanent), Send Challenge (Captcha, JavaScript), Rate Limiting or Tarpit         HICH AVAILABILITY       Multiple Appliances       N+1 Active - Active or Active – Passive (VRRP)         Management Modes       Sandalone / Centralized Management (VM or appliance) with Haltdos Hawk         Secure Communication       Secure communication between centralized management and HA applances for state synchronization         INTEGRATION FEATURES       Integration with 3 <sup>rd</sup> party Threat Intelligence (TI) feeds         Local retention of logs, reports and events. Support for export to 3 <sup>rd</sup> party storage         SIEM Integration       Support for INMP, NTP / SMT 5.MS Gateway and 3 <sup>rd</sup> party Integration vith ASIF/DAST/MAST         MiMS Integration<							
Deployment Modes         1-Arm or n-Arm           Binding         Immediate or Delayed binding           IP Stack         DualiPVA & RIVØ stack           HTTP Protocols         HTTP 0.9/1.0/1.1/2.0 with translation (all versions of HTML, XHTML supported)           Web Socket Support         Yes           Witual Matrix Architecture         Yes           Direct Access Mode         Yes           Direct Access Mode         Yes           Mitigation Modes         Bypass, Record (Report Only), Learning, Mitigation (Block and Report)           Dynamic Routing Protocols         BCP, OSFP, RIP v1, RIP v2           Networking         Support for VLAN, VXLAN, Link Aggregation & Trunking (LACP)           Drop Request, Terminate Connection or Session, Blacklist (temporary or permanent), Send Challenge (Captcha, JavaScript), Rate Limiting or Tarpit           HIGH AVAILABILITY         Multiple Appliances           Management Modes         Standalone / Centralized Management (VM or appliance) with Haltdos Hawk           Secure Communication         Secure communication between centralized management and HA appliances for state synchronization           INTEGRATION FEATURES         Integration with 3 <sup>rd</sup> party Threat Intelligence (TI) feeds           Storage and Export         Local retention of logs, reports and events. Support for sign party storage           NIMS Integration         Support for integration with SIMP, SM			8,	e, Inline L2 Transparent, Offlir	ne		
Binding       Immediate or Delayed binding         IP Stack       Dual IP48 & IP46 stack         HTTP Protocols       ITTP 0.9/10/1.7/2.0 with translation (all versions of HTML, XHTML supported)         Web Socket Support       Yes         Direct Access Mode       Yes         Mitigation Modes       Bypass, Record (Report Only), Learning, Mitigation (Block and Report)         Dynamic Routing Protocols       BGP, OSFP, RIP v1, RIP v2         Networking       Support for VLAN, VXLAN, Link Aggregation & Trunking (LACP)         Drop Request, Terminate Connection or Session, Blacklist (temporary or permanent), Send Challenge (Captcha, JavaScript), Rate Limiting or Tarpit         Multiple Appliances       N + 1 Active - Active or Active – Passive (VRRP)         Standalone/ Centralized Management (VM or appliance) with Haltdos Hawk         Secure Communication       Secure communication between centralized management and HA appliances for state synchronization         INTEGRATION FEATURES       Support for SMMP, NTP / SNTP, DNS, Web Proxy Integration Mith Si <sup>eff</sup> party storage         NIMS Integration       Support for integration with 3 <sup>eff</sup> arty Threat Intelligence (TI) feeds         Support for integration with SEM and Syslog services       AAI Integration         Support for integration with SEM and Syslog services       Support for integration with RAMP, SMTP, SMS SME StawL/ SMM / LDAP         Securit Communication       Support for integratio							
IP Stack       Dual IPv4 & IPv6 stack         HTTP Protocols       HTTP 0.9/1.0/1.1/2.0 with translation (all versions of HTML, XHTML supported)         Web Socket Support       Yes         Direct Access Mode       Yes         Mitigation Modes       Bypass, Record (Report Only), Learning, Mitigation (Block and Report)         Dynamic Routing Protocols       BGP, OSFP, RIP v1, RIP v2         Networking       Support for VLAN, VXLAN, Link Aggregation & Trunking (LACP)         Drop Request, Terminate Connection or Session, Blacklist (temporary or permanent), Send Challenge (Captcha, JavaScript), Rate Limiting or Tarpit         HIGH AVAILABILITY       Multiple Appliances         Multiple Appliances       N + 1 Active - Active or Active - Passive (VRRP)         Management Modes       Standalone / Centralized Management (VM or appliance) with Haltdos Hawk         Secure Communication       Secure communication between centralized management and HA appliances for state synchronization         INTEGRATION FEATURES       Integration with 3 <sup>rd</sup> party Threat Intelligence (TI) feeds         Support for integration of logs, reports and events. Support for sport to 3 <sup>rd</sup> party storage         Nitfication & Logging via SNMP, SMTP, SMS, Gebrey and 3 <sup>rd</sup> party integration and Sylop services         Apath Integration       Support for integration with SEM and Sylop services         Apath Integration       Support for integration with AD SAML/ LDAP							
HTTP Protocols       HTTP 0.9/1.0/1.1/2.0 with translation (all versions of HTML, XHTML supported)         Web Socket Support       Yes         Virtual Matrix Architecture       Yes         Direct Access Mode       Expanses, Record (Report Only), Learning, Mitigation (Block and Report)         Dynamic Routing Protocols       BGP, OSFP, RIP V1, RIP V2         Networking       Support for VLAN, VXLAN, Link Aggregation & Trunking (LACP)         Block Actions       Drop Request, Terminate Connection or Session, Blacklist (temporary or permanent), Send Challenge (Captcha, JavaScript), Rate Limiting or Tarpit         HICH AVAILABILITY       Trunking Communication         Multiple Appliances       N+1 Active - Active or Active – Passive (VRRP)         Management Modes       Standalone / Centralized Management (VM or appliance) with Haltdos Hawk         Secure Communication       Secure Communication         Secure Communication       Secure Communication         Storage and Export       Local retention of logs, reports and events. Support for export to 3rd party storage         NIMIS Integration       Support for SIMMP, NTP, ISNTP, DNS, Web Proxy integration         3rd Party Integration       Support for Integration with SIM and Systog services         SIEM Integration       Support for integration with SIM and Systog services         Sieport for Integration with ASIM And SystOS actevices       Support for integration with ASIM	Binding	Immediate or Delayed bin	ding				
Web Socket Support       Yes         Virtual Matrix Architecture       Yes         Direct Access Mode       Yes         Mitigation Modes       Bypass, Record (Report Only), Learning, Mitigation (Block and Report)         Dynamic Routing Protocols       BGP, OSFP, RIP VI, RIP V2         Networking       Support for VLAN, VXLAN, Link Aggregation & Trunking (LACP)         Drop Request, Terminate Connection or Session, Blacklist (temporary or permanent), Send Challenge (Captcha, JavaScript), Rate Limiting or Tarpit         HIGH AVAILABILITY       Multiple Appliances         N + 1 Active - Active or Active – Passive (VRRP)         Management Modes       Standalone / Centralized Management (VM or appliance) with Haltdos Hawk         Secure Communication       Secure communication between centralized management and HA appliances for state synchronization         INTEGRATION FEATURES       Local retention of logs, reports and events. Support for SNMP, NP / SNTP, DNS, Wee Proxy integration         Support for SNMP, NP / SNTP, DNS, Wee Wey wintegration       Support for integration with SIM and Syslog services         SIEM Integration       Support for integration with SIM and Syslog services         SIEM Integration       Support for integration with SIM and Syslog services         Ala Antegration       Support for integration with SIM and Syslog services         SIEM Integration       Support for integration with SIM and Syslog services </td <td>IP Stack</td> <td>Dual IPv4 &amp; IPv6 stack</td> <td></td> <td></td> <td></td> <td></td> <td></td>	IP Stack	Dual IPv4 & IPv6 stack					
Virtual Matrix Architecture         Yes           Direct Access Mode         Yes           Mitigation Modes         Bypass, Record (Report Only), Learning, Mitigation (Block and Report)           Dynamic Routing Protocols         BGP, OSFP, RIP 41, RIP 42           Networking         Support for VLAN, VXLAN, Link Aggregation & Trunking (LACP)           Drop Request, Terminate Connection or Session, Blacklist (temporary or permanent), Send Challenge (Captcha, JavaScript), Rate Limiting or Tarpit           HIGH AVAILABILITY         N+1 Active - Active or Active – Passive (VRP)           Management Modes         Standalone / Centralized Management (VM or appliance) with Haltdos Hawk           Secure Communication         Secure communication between centralized management and HA appliances for state synchronization           INTEGRATION FEATURES         Integration with 3 <sup>rd</sup> party Threat Intelligence (TI) feeds           Custom Threat Intel         Integration of logs, reports and events. Support for export to 3 <sup>rd</sup> party storage           NIMS Integration         Support for integration with SIEM and Syslog services           SIEM Integration         Support for integration with ADUS and TACACS+           Identity Management         Inbuilt with support for integration with ACACS+           Identity Management         Inbuilt with support for integration with ACACS+           Identity Management         Support for integration with ACAT/DAST/DAST/DAST/DAST	HTTP Protocols	HTTP 0.9/1.0/1.1/2.0 with	translation (all versions of	HTML, XHTML supported)			
Virtual Matrix Architecture         Yes           Direct Access Mode         Yes           Mitigation Modes         Bypass, Record (Report Only), Learning, Mitigation (Block and Report)           Dynamic Routing Protocols         BGP, OSFP, RIP 41, RIP 42           Networking         Support for VLAN, VXLAN, Link Aggregation & Trunking (LACP)           Drop Request, Terminate Connection or Session, Blacklist (temporary or permanent), Send Challenge (Captcha, JavaScript), Rate Limiting or Tarpit           HIGH AVAILABILITY         N+1 Active - Active or Active – Passive (VRP)           Management Modes         Standalone / Centralized Management (VM or appliance) with Haltdos Hawk           Secure Communication         Secure communication between centralized management and HA appliances for state synchronization           INTEGRATION FEATURES         Integration with 3 <sup>rd</sup> party Threat Intelligence (TI) feeds           Custom Threat Intel         Integration of logs, reports and events. Support for export to 3 <sup>rd</sup> party storage           NIMS Integration         Support for integration with SIEM and Syslog services           SIEM Integration         Support for integration with ADUS and TACACS+           Identity Management         Inbuilt with support for integration with ACACS+           Identity Management         Inbuilt with support for integration with ACACS+           Identity Management         Support for integration with ACAT/DAST/DAST/DAST/DAST	Web Socket Support	Yes		· · · · ·			
Direct Access Mode         Yes           Mitigation Modes         Bypass, Record (Report Only), Learning, Mitigation (Block and Report)           Dynamic Routing Protocols         BGP, OSFP, RIP V1, RIP V2           Support for VLAN, VXLAN, Link Aggregation & Trunking (LACP)         Drop Request, Terminate Connection or Session, Blacklist (temporary or permanent), Send Challenge (Captcha, JavaScript), Rate Limiting or Tarpit           HIGH AVAILABILITY         Multiple Appliances         N + 1 Active - Active or Active – Passive (VRRP)           Management Modes         Standalone / Centralized Management (VM or appliance) with Haltdos Hawk           Secure Communication         Secure communication between centralized management and HA appliances for state synchronization           INTEGRATION FEATURES         Local retention of logs, reports and events. Support for export to 3 <sup>rd</sup> party storage           Support for SNMP, NTP / SNTP, DNS, Web Proxy integration         Nuffication & Logging via SNMP, SMT 5 Gateway and 3 <sup>rd</sup> party integration           3rd* Party Integration         Support for integration with SISM and Syslog services           AAA Integration         Support for integration with AQV SysMP, SMTP, SMS Gateway and 3 <sup>rd</sup> party Management           Inbuilt with support for integration with AA/ SAT/DAST/LAST tools         Support for integration with SAST/DAST/LAST tools           Support for Support for resporting attacking IOCs via STIX / TAXII         MANAGEMENT FEATURES		Ves					
Mitigation Modes         Bypass, Record (Report Only), Learning, Mitigation (Block and Report)           Dynamic Routing Protocols         BGP, OSPP, RIP VJ, RIP V2           Networking         Support for VLAN, VXLAN, Link Aggregation & Trunking (LACP)           Block Actions         Drop Request, Terminate Connection or Session, Blacklist (temporary or permanent), Send Challenge (Captcha, JavaScript), Rate Limiting or Tarpit           HIGH AVAILABILITY         N+1 Active - Active or Active - Passive (VRRP)           Multiple Appliances         N+1 Active - Active or Active - Passive (VRRP)           Management Modes         Standalone / Centralized Management (VM or appliance) with Haltdos Hawk           Secure Communication         Secure communication between centralized management and HA appliances for state synchronization           INTEGRATION FEATURES         Integration with 3 <sup>rd</sup> party Threat Intelligence (TI) feeds           Custom Threat Intel         Integration with 3 <sup>rd</sup> party Threat Intelligence (TI) feeds           Storage and Export         Local retention of logs, reports and events. Support for export to 3 <sup>rd</sup> party storage           NIMS Integration         Support for SNNP, NTP / SNTP, DNS, Web Proxy integration           3 <sup>rd</sup> Party Integration         Nutification & Logging via SNINP, SMT SMG Setaway and 3 <sup>rd</sup> party integration via API hooks, CI/CD, Kubernetes           SIEM Integration         Support for integration with SIMM ad Syslog services           AAA Integration	VII COOLIVIAUITY AI CHILECLUIE	103					
Dynamic Routing Protocols       BGP, OSFP, RIP v1, RIP v2         Networking       Support for VLAN, VXLAN, Link Aggregation & Trunking (LACP)         Block Actions       Drop Request, Terminate Connection or Session, Blacklist (temporary or permanent), Send Challenge (Captcha, JavaScript), Rate Limiting or Tarpit         HIGH AVAILABILITY       Multiple Appliances       N+1 Active - Active or Active Passive (VRRP)         Standalone / Centralized Management (VM or appliance) with Haltdos Hawk       Secure Communication         Secure Communication       Secure communication between centralized management and HA appliances for state synchronization         INTEGRATION FEATURES       Local retention of logs, reports and events. Support for export to 3 <sup>rd</sup> party storage         SileM Integration       Support for Integration with SILEM and Syslog services         SileM Integration       Support for integration with SILEM and Syslog services         AAA Integration       Support for integration with ASIL AD / SAML / LDAP         Secure Torion Support for integration with ASIT/DAST/IAST tools       Support for integration with SAST/DAST/IAST tools							
Networking         Support for VLAN, VXLAN, Link Aggregation & Trunking (LACP)           Block Actions         Drop Request, Terminate Connection or Session, Blacklist (temporary or permanent), Send Challenge (Captcha, JavaScript), Rate Limiting or Tarpit           HIGH AVAILABILITY         Multiple Appliances         N+1 Active - Active or Active – Passive (VRRP)           Management Modes         Standalone / Centralized Management (VM or appliance) with Haltdos Hawk           Secure Communication         Secure communication between centralized management and HA appliances for state synchronization           INTEGRATION FEATURES         Integration with 3 <sup>rd</sup> party Threat Intelligence (TI) feeds           Local retention of logs, reports and events. Support for export to 3 <sup>rd</sup> party storage         Support for SNMP, NTP / SNTP, DNS, Web Proxy integration           3 <sup>rd</sup> Party Integration         Support for integration with SIEM and Syslog services         Support for integration with SIEM and Syslog services           SIEM Integration         Support for integration with ASIT/DAST/AST tools         Support for exporting attacking IOCs via STIX / TAXII           MANAGEMENT FEATURES         Support for exporting attacking IOCs via STIX / TAXII         Support for exporting attacking IOCs via STIX / TAXII	Direct Access Mode	Yes	nly), Learning, Mitigation (F	Block and Report)			
Block Actions         Drop Request, Terminate Connection or Session, Blacklist (temporary or permanent), Send Challenge (Captcha, JavaScript), Rate Limiting or Tarpit           HIGH AVAILABILITY         N+1 Active - Active or Active – Passive (VRRP)           Management Modes         Standalone / Centralized Management (VM or appliance) with Haltdos Hawk           Secure Communication         Secure communication between centralized management and HA appliances for state synchronization           INTEGRATION FEATURES         Integration with 3 <sup>rd</sup> party Threat Intelligence (TI) feeds           Storage and Export         Local retention of logs, reports and events. Support for synty storage           NIMS Integration         Support for SNMP, NTP / SNTP, DNS, Web Proxy integration           3 <sup>rd</sup> Party Integration         Notification & Logging via SNMP, SMTP, SMS Gateway and 3 <sup>rd</sup> party integration via API hooks, CI/CD, Kubernetes           SIEM Integration         Support for integration with SIEM and Syslog services           AAA Integration         Support for integration with AD /SAML/LDAP           Inbuilt with support for integration with AST/DAST/AST tools         Support for exporting attacking IOCs via STIX / TAXII           MANAGEMENT FEATURES         Support for exporting attacking IOCs via STIX / TAXII	Direct Access Mode Mitigation Modes	Yes Bypass, Record (Report O		Block and Report)			
Block Actions       Tarpit         HIGH AVAILABILITY         HIGH AVAILABILITY         Multiple Appliances       N+1 Active - Active or Active – Passive (VRRP)         Management Modes       Standalone / Centralized Management (VM or appliance) with Haltdos Hawk         Secure Communication       Secure communication between centralized management and HA appliances for state synchronization         INTEGRATION FEATURES       Integration with 3 <sup>rd</sup> party Threat Intelligence (TI) feeds         Custom Threat Intel       Integration with 3 <sup>rd</sup> party Threat Intelligence (TI) feeds         Storage and Export       Local retention of logs, reports and events. Support for export to 3 <sup>rd</sup> party storage         NIMS Integration       Support for SIMP, NTP, DNS, Web Proxy integration         3 <sup>rd</sup> Party Integration       Notification & Logging via SIMP, SMTP, SMS Gateway and 3 <sup>rd</sup> party integration via API hooks, CI/CD, Kubernetes         SIEM Integration       Support for integration with SIEM and Syslog services         AAA Integration       Support for integration with AD / SAML/ LDAP         Identity Management       Inbuilt with support for integration with AST/DAST/AST tools         Suport for exporting attacking IOCs via STIX / TAXII         MANAGEMENT FEATURES       Feature Storage and Factor Resorting attacking IOCs via STIX / TAXII	Direct Access Mode Mitigation Modes Dynamic Routing Protocols	Yes Bypass, Record (Report O BGP, OSFP, RIP v1, RIP v2					
HIGH AVAILABILITY         Multiple Appliances       N+1 Active - Active or Active – Passive (VRRP)         Management Modes       Standalone / Centralized Management (VM or appliance) with Haltdos Hawk         Secure Communication       Secure communication between centralized management and HA appliances for state synchronization         INTEGRATION FEATURES       Integration with 3 <sup>rd</sup> party Threat Intelligence (TI) feeds         Custom Threat Intel       Integration of logs, reports and events. Support for export to 3 <sup>rd</sup> party storage         NIMS Integration       Support for SNMP, NTP / SNTP, DNS, Web Proxy integration         3 <sup>rd</sup> Party Integration       Support for integration with SIEM and Syslog services         SIEM Integration       Support for integration with ASIM AADUS and TACACS+         Identity Management       Inbuilt with support for integration with AST/DAST/AST tools         Export IOCs       Support for integration with ASIT/AST tools         Export IOCs       Support for exporting attacking IOCs via STIX / TAXII	Direct Access Mode Mitigation Modes Dynamic Routing Protocols	Yes Bypass, Record (Report O BGP, OSFP, RIP v1, RIP v2 Support for VLAN, VXLAN	, Link Aggregation & Trunk	ing (LACP)	nent) Send Challenge (Co-	trha laugCrrint) Data Limit	ing or
Multiple Appliances         N+1 Active - Active or Active – Passive (VRRP)           Management Modes         Standalone / Centralized Management (VM or appliance) with Haltdos Hawk           Secure Communication         Secure communication between centralized management and Ha appliances for state synchronization           INTEGRATION FEATURES         Integration with 3 <sup>rd</sup> party Threat Intelligence (TI) feeds           Custom Threat Intel         Integration of logs, reports and events. Support for export to 3 <sup>rd</sup> party storage           Storage and Export         Local retention of logs, reports and events. Support for export to 3 <sup>rd</sup> party storage           NIMS Integration         Support for SNMP, NTP / SNTP, DNS, Web Proxy integration           Steff Integration         Support for integration with SIEM and Syslog services           SIEM Integration         Support for integration with AD / SAML / LDAP           Identity Management         Inbuilt with support for integration with AD / SAML / LDAP           Security Tools Integration         Support for integration with SAST/DAST / TAXII           MANAGEMENT FEATURES         Support for exporting attacking IOCs via STIX / TAXII	Direct Access Mode Mitigation Modes Dynamic Routing Protocols Networking	Yes Bypass, Record (Report O BGP, OSFP, RIP v1, RIP v2 Support for VLAN, VXLAN Drop Request, Terminate	, Link Aggregation & Trunk	ing (LACP)	nent), Send Challenge (Cap	tcha, JavaScript), Rate Limit	ing or
Management Modes         Standalone / Centralized Management (VM or appliance) with Haltdos Hawk           Secure Communication         Secure communication between centralized management and HA appliances for state synchronization           INTEGRATION FEATURES         Integration with 3 <sup>rd</sup> party Threat Intelligence (TI) feeds           Custom Threat Intel         Integration of logs, reports and events. Support for export to 3 <sup>rd</sup> party storage           NIMS Integration         Support for SNMP, NTP / SNTP, DNS, Web Proxy integration           3 <sup>rd</sup> Party Integration         Notification & Logging via SNMP, SMTP, SMS Gateway and 3 <sup>rd</sup> party integration via API hooks, CI/CD, Kubernetes           SIEM Integration         Support for integration with SIEM and Syslog services           AAA Integration         Support for integration with AD / SAML/ LDAP           Security Tools Integration         Support for integration with SAST/DAST/IAST tools           Export IOCS         Support for exporting attacking IOCs via STIX / TAXII	Direct Access Mode Mitigation Modes Dynamic Routing Protocols Networking Block Actions	Yes Bypass, Record (Report O BGP, OSFP, RIP v1, RIP v2 Support for VLAN, VXLAN Drop Request, Terminate	, Link Aggregation & Trunk	ing (LACP)	nent), Send Challenge (Cap	tcha, JavaScript), Rate Limit	ing or
Secure Communication         Secure communication between centralized management and HA appliances for state synchronization           INTEGRATION FEATURES         Integration with 3 <sup>rd</sup> party Threat Intelligence (TI) feeds           Custom Threat Intel         Integration with 3 <sup>rd</sup> party Threat Intelligence (TI) feeds           Storage and Export         Local retention of logs, reports and events. Support for export to 3 <sup>rd</sup> party storage           NIMS Integration         Support for SNMP, NTP / SNTP, DNS, Web Proxy integration           3 <sup>rd</sup> Party Integration         Notification & Logging via SNMP, SMTP, SMS Gateway and 3 <sup>rd</sup> party integration via API hooks, CI/CD, Kubernetes           SIEM Integration         Support for integration with SIEM and Syslog services           AAA Integration         Support for integration via RADIUS and TACACS+           Identity Management         Inbuilt with support for integration with AD / SAML/ LDAP           Security Tools Integration         Support for integration with SAST/DAST/IAST tools           Export IOCS         Support for exporting attacking IOCs via STIX / TAXII	Direct Access Mode Mitigation Modes Dynamic Routing Protocols Networking Block Actions HIGH AVAILABILITY	Yes Bypass, Record (Report O BGP, OSFP, RIP v1, RIP v2 Support for VLAN, VXLAN Drop Request, Terminate Tarpit	, Link Aggregation & Trunk Connection or Session, Bl	ing (LACP)	nent), Send Challenge (Cap	tcha, JavaScript), Rate Limil	ing or
INTEGRATION FEATURES         Custom Threat Intel       Integration with 3 <sup>rd</sup> party Threat Intelligence (Ti) feeds         Storage and Export       Local retention of logs, reports and events. Support for export to 3 <sup>rd</sup> party storage         NIIMS Integration       Support for SNMP, NTP, DNS, Web Proxy integration         3 <sup>rd</sup> Party Integration       Notification & Logging via SNMP, SMTP, SNS Gateway and 3 <sup>rd</sup> party integration via API hooks, CI/CD, Kubernetes         SIEM Integration       Support for integration with SIEM and Syslog services         AAA Integration       Support for integration via ADIUS and TACACS+         Identity Management       Inbuilt with support for integration with AD / SAML/ LDAP         Security Tools Integration       Support for integration with SAST/DAST/IAST tools         Export IOCS       Support for exporting attacking IOCs via STIX / TAXII	Direct Access Mode Mitigation Modes Dynamic Routing Protocols Networking Block Actions HIGH AVAILABILITY Multiple Appliances	Yes Bypass, Record (Report O BGP, OSFP, RIP v1, RIP v2 Support for VLAN, VXLAN Drop Request, Terminate Tarpit N+1 Active - Active or Ac	, Link Aggregation & Trunk Connection or Session, Bl tive – Passive (VRRP)	ing (LACP) acklist (temporary or perman	nent), Send Challenge (Cap	tcha, JavaScript), Rate Limit	ing or
Custom Threat Intel       Integration with 3rd party Threat Intelligence (TI) feeds         Storage and Export       Local retention of logs, reports and events. Support for export to 3rd party storage         NIMS Integration       Support for SNMP, NTP / SNTP, DNS, Web Proxy integration         3rd* Party Integration       Notification & Logging via SNMP, SMTP, SMS Gateway and 3rd party integration via API hooks, CI/CD, Kubernetes         SIEM Integration       Support for integration with SIEM and Syslog services         AAA Integration       Support for integration via RADIUS and TACACS+         Identity Management       Inbuilt with support for integration with AST/DAST/AST tools         Security Tools Integration       Support for exporting attacking IOCs via STIX / TAXII	Direct Access Mode Mitigation Modes Dynamic Routing Protocols Networking Block Actions HIGH AVAILABILITY Multiple Appliances Management Modes	Yes Bypass, Record (Report O BGP, OSFP, RIP v1, RIP v2 Support for VLAN, VXLAN Drop Request, Terminate Tarpit N + 1 Active - Active or Ac Standalone / Centralized	, Link Aggregation & Trunk Connection or Session, Bla tive – Passive (VRRP) Management (VM or applia	ing (LACP) acklist (temporary or permai ance) with Haltdos Hawk		tcha, JavaScript), Rate Limit	ing or
Storage and Export       Local retention of logs, reports and events. Support for export to 3rd party storage         NIMS Integration       Support for SNMP, NTP / SNTP, DNS, Web Proxy integration         3rd Party Integration       Notification & Logging via SNMP, SMTP, SMS Gateway and 3rd party integration via API hooks, CI/CD, Kubernetes         SIEM Integration       Support for integration with SIEM and Syslog services         AAA Integration       Support for integration via ADIUS and TACACS+         Identity Management       Inbuilt with support for integration with AD / SAML / LDAP         Security Tools Integration       Support for integration IOCS support for integration UOS STIX / TAXII	Direct Access Mode Mitigation Modes Dynamic Routing Protocols Networking Block Actions HIGH AVAILABILITY Multiple Appliances Management Modes Secure Communication	Yes Bypass, Record (Report O BGP, OSFP, RIP v1, RIP v2 Support for VLAN, VXLAN Drop Request, Terminate Tarpit N + 1 Active - Active or Ac Standalone / Centralized	, Link Aggregation & Trunk Connection or Session, Bla tive – Passive (VRRP) Management (VM or applia	ing (LACP) acklist (temporary or permai ance) with Haltdos Hawk		tcha, JavaScript), Rate Limii	ing or
NIMS Integration         Support for SNMP, NTP / SNTP, DNS, Web Proxy integration           3rd Party Integration         Notification & Logging via SNMP, SMTP, SMS Gateway and 3rd party integration via API hooks, CI/CD, Kubernetes           SIEM Integration         Support for integration with SIEM and Syslog services           AAA Integration         Support for integration via AADIUS and TACACS+           Identity Management         Inbuilt with support for integration with AD / SAML / LDAP           Security Tools Integration         Support for integration with SAST/DAST/AST tools           Export IOCs         Support for exporting attacking IOCs via STIX / TAXII	Direct Access Mode Mitigation Modes Dynamic Routing Protocols Networking Block Actions HIGH AVAILABILITY Multiple Appliances Management Modes Secure Communication INTEGRATION FEATURES	Yes Bypass, Record (Report O BGP, OSFP, RIP v1, RIP v2 Support for VLAN, VXLAN Drop Request, Terminate Tarpit N+1 Active - Active or Ac Standalone / Centralized Secure communication be	, Link Aggregation & Trunk Connection or Session, Bl tive – Passive (VRRP) Management (VM or applia etween centralized manage	ing (LACP) acklist (temporary or permai ance) with Haltdos Hawk		tcha, JavaScript), Rate Limit	ing or
3rd Party Integration       Notification & Logging via SNMP, SMTP, SMS Gateway and 3rd party integration via API hooks, CI/CD, Kubernetes         SIEM Integration       Support for integration with SIEM and Syslog services         AAA Integration       Support for integration via APILUS and TACACS+         Identity Management       Inbuilt with support for integration with AD / SAML/LDAP         Security Tools Integration       Support for integration with SAST/DAST/IAST tools         Export IOCs       Support for exporting attacking IOCs via STIX / TAXII	Direct Access Mode Mitigation Modes Dynamic Routing Protocols Networking Block Actions HIGH AVAILABILITY Multiple Appliances Management Modes Secure Communication INTEGRATION FEATURES	Yes Bypass, Record (Report O BGP, OSFP, RIP v1, RIP v2 Support for VLAN, VXLAN Drop Request, Terminate Tarpit N + 1 Active - Active or Ac Standalone / Centralized Secure communication be Integration with 3 <sup>rd</sup> party 1	, Link Aggregation & Trunk Connection or Session, Bl tive – Passive (VRRP) Management (VM or applia etween centralized manage	ing (LACP) acklist (temporary or permai ance) with Haltdos Hawk rment and HA appliances for	state synchronization	tcha, JavaScript), Rate Limit	ing or
3rd Party Integration       Notification & Logging via SNMP, SMTP, SMS Gateway and 3rd party integration via API hooks, CI/CD, Kubernetes         SIEM Integration       Support for integration with SIEM and Syslog services         AAA Integration       Support for integration via APILUS and TACACS+         Identity Management       Inbuilt with support for integration with AD / SAML/LDAP         Security Tools Integration       Support for integration with SAST/DAST/IAST tools         Export IOCs       Support for exporting attacking IOCs via STIX / TAXII	Direct Access Mode Mitigation Modes Dynamic Routing Protocols Networking Block Actions HIGH AVAILABILITY Multiple Appliances Management Modes Secure Communication INTEGRATION FEATURES Custom Threat Intel	Yes Bypass, Record (Report O BGP, OSFP, RIP v1, RIP v2 Support for VLAN, VXLAN Drop Request, Terminate Tarpit N + 1 Active - Active or Ac Standalone / Centralized Secure communication be Integration with 3 <sup>rd</sup> party 1	, Link Aggregation & Trunk Connection or Session, Bl tive – Passive (VRRP) Management (VM or applia etween centralized manage	ing (LACP) acklist (temporary or permai ance) with Haltdos Hawk rment and HA appliances for	state synchronization	tcha, JavaScript), Rate Limit	ing or
SIEM Integration         Support for integration with SIEM and Syslog services           AAA Integration         Support for integration via RADIUS and TACACS+           Identity Management         Inbuilt with support for integration with AD / SAML / LDAP           Security Tools Integration         Support for integration with SAST/DAST/IAST tools           Export IOCs         Support for exporting attacking IOCs via STIX / TAXII	Direct Access Mode Mitigation Modes Dynamic Routing Protocols Networking Block Actions HIGH AVAILABILITY Multiple Appliances Management Modes Secure Communication INTEGRATION FEATURES Custom Threat Intel Storage and Export	Yes Bypass, Record (Report O BGP, OSFP, RIP v1, RIP v2 Support for VLAN, VXLAN Drop Request, Terminate Tarpit N+1 Active - Active or Ac Standalone / Centralized I Secure communication be Integration with 3 <sup>rd</sup> party 1 Local retention of logs, rej	, Link Aggregation & Trunk Connection or Session, Bl tive – Passive (VRRP) Management (VM or applia etween centralized manage 'hreat Intelligence (TI) feeds poorts and events. Support fo	ing (LACP) acklist (temporary or perman ance) with Haltdos Hawk ement and HA appliances for pr export to 3 <sup>rd</sup> party storage	state synchronization	tcha, JavaScript), Rate Limil	ing or
AAA Integration         Support for integration via RADIUS and TACACS+           Identity Management         Inbuilt with support for integration with AD / SAML/LDAP           Security Tools Integration         Support for integration with SAST/DAST/IAST tools           Export IOCs         Support for exporting attacking IOCs via STIX / TAXII	Direct Access Mode Mitigation Modes Dynamic Routing Protocols Networking Block Actions HIGH AVAILABILITY Multiple Appliances Management Modes Secure Communication INTEGRATION FEATURES Custom Threat Intel Storage and Export NIMS Integration	Yes Bypass, Record (Report O BGP, OSFP, RIP v1, RIP v2 Support for VLAN, VXLAN Drop Request, Terminate Tarpit N+1 Active - Active or Ac Standalone / Centralized I Secure communication be Integration with 3 <sup>rd</sup> party T Local retention of logs, rej Support for SNMP, NTP /	, Link Aggregation & Trunk Connection or Session, Bla tive – Passive (VRRP) Management (VM or applia etween centralized manage hreat Intelligence (Ti) feeds oorts and events. Support fr SNTP, DNS, Web Proxy int	ing (LACP) acklist (temporary or perman ance) with Haltdos Hawk ment and HA appliances for or export to 3 <sup>rd</sup> party storage egration	state synchronization		ing or
Identity Management         Inbuilt with support for integration with AD / SAML/LDAP           Security Tools Integration         Support for integration with SAST/DAST/IAST tools           Export IOCs         Support for exporting attacking IOCs via STIX / TAXII	Direct Access Mode Mitigation Modes Dynamic Routing Protocols Networking Block Actions HIGH AVAILABILITY Multiple Appliances Management Modes Secure Communication INTEGRATION FEATURES Custom Threat Intel Storage and Export NIMS Integration 3 <sup>rd</sup> Party Integration	Yes Bypass, Record (Report O BGP, OSFP, RIP v1, RIP v2 Support for VLAN, VXLAN Drop Request, Terminate Tarpit N+1 Active - Active or Ac Standalone / Centralized Secure communication be Integration with 3 <sup>rd</sup> party T Local retention of logs, re Support for SNMP, NTP / Notification & Logging via	, Link Aggregation & Trunk Connection or Session, Bla tive – Passive (VRRP) Management (VM or applia etween centralized manage inreat Intelligence (TI) feeds ports and events. Support fi SNTP, DNS, Web Proxy int SNMP, SMTP, SMS Gatewa	ing (LACP) acklist (temporary or permain ance) with Haltdos Hawk ement and HA appliances for pr export to 3 <sup>rd</sup> party storage egration ay and 3 <sup>rd</sup> party integration v	state synchronization		ing or
Security Tools Integration         Support for integration with SAST/DAST/IAST tools           Export IOCs         Support for exporting attacking IOCs via STIX / TAXII           MANAGEMENT FEATURES         Support for exporting attacking IOCs via STIX / TAXII	Direct Access Mode Mitigation Modes Dynamic Routing Protocols Networking Block Actions HIGH AVAILABILITY Multiple Appliances Management Modes Secure Communication INTEGRATION FEATURES Custom Threat Intel Storage and Export NIMS Integration 3 <sup>erd</sup> Party Integration SIEM Integration	Yes Bypass, Record (Report O BGP, OSFP, RIP v1, RIP v2 Support for VLAN, VXLAN Drop Request, Terminate Tarpit N + 1 Active - Active or Ac Standalone / Centralized Secure communication bs Integration with 3 <sup>rd</sup> party T Local retention of logs, re Support for SNMP, NTP / Notification & Logging via Support for integration with	, Link Aggregation & Trunk Connection or Session, Bla tive – Passive (VRRP) Management (VM or applia etween centralized manage Threat Intelligence (TI) feeds boorts and events. Support fi SNTP, DNS, Web Proxy int SNMP, SMTP, SMS Gatewa th SIEM and Syslog services	ing (LACP) acklist (temporary or permain ance) with Haltdos Hawk ement and HA appliances for pr export to 3 <sup>rd</sup> party storage egration ay and 3 <sup>rd</sup> party integration v	state synchronization		ing or
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MANAGEMENT FEATURES	Direct Access Mode Mitigation Modes Dynamic Routing Protocols Networking Block Actions HIGH AVAILABILITY Multiple Appliances Management Modes Secure Communications INTEGRATION FEATURES Custom Threat Intel Storage and Export NIMS Integration 3 <sup>ed</sup> Party Integration SIEM Integration AAA Integration Identity Management	Yes Bypass, Record (Report O BGP, OSFP, RIP v1, RIP v2 Support for VLAN, VXLAN Drop Request, Terminate Tarpit N+1 Active - Active or Ac Standalone / Centralized I Secure communication be Integration with 3rd party T Local retention of logs, ref Support for SNMP, NTP / Notification & Logging via Support for integration wi Support for integration wi Inbuilt with support for int	, Link Aggregation & Trunk Connection or Session, Bl tive – Passive (VRRP) Management (VM or applia etween centralized manage hreat Intelligence (TI) feeds boorts and events. Support fi SNTP, DNS, Web Proxy int SNMP, SMTP, SMS Gatewa th SIEM and Syslog services RADIUS and TACACS+ regration with AD / SAML/L	ing (LACP) acklist (temporary or perman ance) with Haltdos Hawk ement and HA appliances for per export to 3 <sup>rd</sup> party storage egration ay and 3 <sup>rd</sup> party integration v	state synchronization		ing or
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Graphical User Interface (GUI) Secure web interface over HTTPs with support for all modern browsers	Direct Access Mode Mitigation Modes Dynamic Routing Protocols Networking Block Actions HIGH AVAILABILITY Multiple Appliances Management Modes Secure Communication INTEGRATION FEATURES Custom Threat Intel Storage and Export NIMS Integration 3 <sup>rd</sup> Party Integration SIEM Integration Identity Management Security Tools Integration	Yes Bypass, Record (Report O BGP, OSFP, RIP V1, RIP V2 Support for VLAN, VXLAN Drop Request, Terminate Tarpit N+1 Active - Active or Ac Standalone / Centralized I Secure communication be Integration with 3 <sup>rd</sup> party 1 Local retention of logs, rej Support for SNMP, NTP / Notification & Logging via Support for integration wi Support for integration via Inbuilt with support for integration via	, Link Aggregation & Trunk Connection or Session, Bl tive – Passive (VRRP) Management (VM or applia etween centralized manage hreat Intelligence (TI) feeds borts and events. Support fi SNTP, DNS, Web Proxy int SNMP, SMTP, SMS Gatewa th SIEM and Syslog services a RADIUS and TACACS+ egration with AD / SAML/L th SAST/DAST/IAST tools	ing (LACP) acklist (temporary or perman ance) with Haltdos Hawk ement and HA appliances for per export to 3 <sup>rd</sup> party storage egration ay and 3 <sup>rd</sup> party integration v	state synchronization		ing or
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Commendation later from (CUI)		
Command Line Interface (CLI)	Command Line Interface over SSH or console port	
API Integration	Yes (XML or JSON)	
System Management	IPMI2.0 Compliant	
Logging Dashboards	Centralized logging of system, services, MIS, incidents Real Time & historical databaseds with sustam duration. Support for sustam databaseds	
System Status Dashboard	Real-Time & historical dashboards with custom duration. Support for custom dashboards 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 & 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 AI/ML via Haltdos cloud	
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		
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 Al 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 AI 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 Minimize False Positives	Built-in AV scanner for malicious file upload. Support for ICAP integration for 3 <sup>rd</sup> party scanners	
HTTP Validations	Support for REGEX based whitelist rules and signature staging and deploy policies to minimize signature based false positives Protocol validations, request normalization (encoding & evasion techniques) before inspection, managing security headers and cookies etc.	
Policy Inspection	Policy validations, request normalization (encoung & evasion techniques) before inspection, managing security neaders and cookies etc. 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 LSD or caption challenge on suspicious user activity or known bots or malicious IPs	
Rate Limiting	Support of 50 of appendix distance of subjects about the form of t	
API & WebSocket Protection	Built-in XNL frewall, validation of XNL/ JSON / Ajax / SOAP / GraphQL/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	
Enforced Proving	Protection against forceful browsing, access to predictable resources, unauthorized navigation with additional security enforcement with Two factor	
Enforced Browsing	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	
SSL/TLS 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 also supported,	
	proxy SSL/TLS connections	
Load Balancing Advanced Load Balancing	Layer 4 & Layer 7 load balancing (HTTP, TCP, UDP, etc.) Content based load balancing with upstream rules	
Auvanced Load Balancing	Content based load balancing with upstream rules Round robin (RR), weighted round robin, minimum misses, persistent hash (IP, Cookie, Header or Argument), tuneable hash, least	
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, HIPAA, SOC2, GDPR, enforcement	
API Security	Built-in API gateway for authentication, rate limiting, transformation, documentation and discovery	
Authentication	Support for Single SignOn with multiple Auth type like Basic Auth, Form Auth, NTLM, IDAP, SAML, etc	
Port Mirroring	Mirror traffic / specific traffic to another NIC port	

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