ANNEXURE A

S.No	Unified Threat Management Appliance specifications	Compliance	Remarks
	GENERAL SPECIFICATIONS		
1.1	Product or OEM should be ISO 9001-2008 Certified		
1.2	OEM should have regional presence for sales & support		
1.3	Proposed appliance should support inbuilt hdd for storage of Logs &		
1.4	Proposed solution should comply FCC and CE norms		
1.5	The proposed solution should match following criteria.		
	a. Hardware platform must be 64 bit		
	b. Must be based on Multicore Parallel Processing Architecture		
	c. 10 number of 10/100/1000 interface with Hardware Bypass		
	a. 25000 number of new connection		
	f 3.0 Gbps Firewall throughout		
	a 1000Mbps IPS throughput		
	h. 550Mpbs UTM throughput		
	The proposed solution should have unrestricted user/node license.		
1.6			
	The proposed solution must work as standalone HTTP proxy server		
17	with integrated Firewall, Anti Virus, Anti Spam, Content filtering, IPS.		
1.7	The proposed solution must support User based policy configuration		
18	for socurity & internet management		
1.0	The proposed solution should provide on appliance reports based on		
1.9	user not only on the base of IP address.		
2.0	Proposed appliance shoulf support MIX mode deployment.		
	Administration, Authentication & General		
	Configuration		
	The proposed solution should support administration via secured		
2.1	communiation over HTTPS, SSH and from Console.		
2.2	The proposed solution should be able to export and import		
2.2	configuration backup including user objects		
23	The proposed solution should support Route (Layer 3)/transparent		
2.0	The proposed solution should support integration with Windows NTLM		
	Active Directory, IDAP, Radius or Local Database for user		
2.4	authentication.		
	The proposed solution must support automatic transparent Single Sign		
	on (ASSO) for user authentication. SSO must be proxy independent		
2 5	and support all applications for authentication.		
2.5	The proposed solution should support Dynamic DNS configuration		
2.6			
	The proposed solution should provide bandwidth utilization graph on		
27	daily, weekly, monthly or yearly for total or individual ISP link.		
2.7	The proposed solution should provide real time data		
	transfor/bandwidth utilization dong by individual usor/in/application		
2.8			
	The proposed solution should support Parent Proxy with IP/FQDN		
2.9	support.		
2.10	The proposed solution should support NTP.		
	The proposed solution should support user/ip/mac binding		
0.44	functionality to map username with IP address & MAC address for		
2.11	security reason.		┨─────┤
2 1 2	ine proposed solution should have multi-lingual support for Web		
2.12	aumin console. The proposed solution should support Version roll back functionality		
2.13	The proposed solution should support version for back functionality.		
	The proposed solution should support session time out & Idle time out		
2.14	facility to forcefully logout the users.		

	The proposed solution should support ACL based user creation for	
2.15	administration purpose.	
	The proposed solution should support LAN bypass facility in case	
2.16	appliance is configured in Transparent mode.	
	The proposed solution should support inbuilt PPPOE client and should	
	be capable to automatically update all required configuration	
2.17	whenever PPPOE get changed.	
2.18	The proposed solution should support SNMP v1, v2c & v3.	
	The proposed solution must be firmware based instead of normal	
	software with capability to keep three firmware instant roll back.	
2.19		
	The proposed solution must provide flexible, granular role-based GUI	
2.20	administration.	
	The proposed solution must provide support of multiple authentication	
2.24	servers for each module (Firewall, Different type of VPN)	
2.21		
	The proposed solution must support of Thin Client (Microsoft TSE,	
2 2 2	Citrix) authentication and must be able to differentiate users coming	
2.22	from same IP address.	
	Multiple ISP load balancing and Failover	
	The proposed solution should support load balancing & failover for	
3.1	more than 2 ISP.	
	The proposed solution should support explicit routing based on Source,	
3.2	Destination, Username, Application.	
	The proposed solution should support weighted round robin algorithm	
3.3	for Load balancing.	
	The proposed solution should provide option to create failover	
2.4	condition on ICMP, TCP or UDP protocol to detect failed ISP	
3.4	connection.	
2 5	The proposed solution should send alert email to admin on change of	
3.5	dateway status.	
3.6	Active / Dessive geteway lead belancing and feilever support	
0.0		
	High Availabiliy	
4.1	The proposed solution should support High Availability Active/Passive	
4.1	or Active/Active	
4.2	The proposed solution should be ICSA certified High Availability	
7.2	Isolution. The proposed solution should send patification to admin on change of	
4.3	appliance status in High Availability	
4 4	The HA traffic between two peers must be encrypted	
	The proposed solution should support Link, device & Session failure	
4.5	The proposed solution should support Link, device & Session failure.	
	The proposed solution should support automatic & manual	
4.6	synchronization between appliances in cluster.	
	Firewall	
	The proposed solution should be standalone appliance with hardened	
5.1		
	The proposed solution should be ICSA & Webcoast checkmark certified	
5.2	firewall.	
	The proposed solution should support stateful inspection with user	
5.3	based one-to-one & dynamic NAT. PAT.	
	The proposed solution must support user identity as matching criteria	
	along with Source/Destination IP/Subnet/group, destination Port in	
54	firewall rule.	
<u> </u>	The proposed solution should facilitate to apply unified threat policy	
	like AV/AS IPS Content filtering Randwidth policy & policy based	
	routing decision on firewall rule for ease of use also unified threat	
5.5	controls must be applied on inter zone traffic	
	The proposed solution should support user defined multi zone security	
5.6	architecture	

	The proposed colution should have predefine explication based on	
	The proposed solution should have predefine application based on	
	port/Signature & also support creation of custom application based on	
5.7	port/protocol number.	
	The proposed solution should support ibound NAT load balancing.	
5.8	h. there are a subtraction of the second s	
	The proposed solution should support 202 to VI AN tagging support	
5.0	The proposed solution should support 602. If VLAN tagging support.	
5.9		
	The proposed solution should support dynamic routing like RIP1, RIP2,	
5.10	ISPF, BGP4.	
	The proposed solution should support Cisco compliance command line	
5.11	intorface for Static/Dunamic routing	
	The proposed system should provide elect message on Desh Board	
	The proposed system should provide alert message on Dash board	
	whenever default password is not changed, non secure access is	
5.12	allowed & module subscription is expiring.	
	The proposed system must provide Mac Address (Physical Address)	
	based firewall rule to provide OSL Laver 2 to Laver 7 security	
5 13	based in ewait rule to provide Ost Edger 2 to Edger 7 security	
	The menored colution much be summary ID // op men	
	The proposed solution must be support IPV6 as per	
5.14	www.ipv6readv.org_guidelines	
	The proposed solution must support 3G UMTS, GSM, GPRS modem via	
	USB interface for VPN and Gateway Failover - Load Balancing	
5.15		
	The proposed solution should support Fully Qualified Domain Name	
5 1 4	The proposed solution should support rully Qualified Domain Name	
5.10	(FUDN) based host and host group.	
	The proposed solution should support Differenciated Services Code	
5.17	Point (DSCP)	
	IDS	
	IFJ	
6.1	The proposed solution should be webcoast checkmark certified.	
	The proposed solution should have singnature based and protocol	
6.2	anomaly based Intrusion provention system	
6.2	The proposed solution should have 4000 - signature database	
0.3	The proposed solution should have 4000+ signature database.	
	The proposed solution must support creation of custom IPS signature.	
6.4		
	The proposed solution must support creation of multiple IPS policy for	
	different zone instead of blanket notice at interface level	
65	umerent zone instead of blanket policy at interface level.	
0.5		
	The proposed solution must support configuration option to	
	disable/enable category/signature to reduce the packet latency.	
6.6		
	The proposed solution should give username along with IP in IPS	
67	alarta and reports	
0.7	The managed eduction alreaded externationally taken undets from undets	
()	The proposed solution should automatically takes update from update	
6.8	server.	
	The proposed solution must support blocking of anonymous open	
	HTTP Proxy running on 80 port or any other port & also should support	
6.9	client based open provy like Ultra surf	
	The proposed solution should able to detect & block known P2P based	
	inclust measurement of a light of the olympic of the second measurement of the second measuremen	
6 10	instant messanging application like skype & known chat application	
0.10	like WLM. Rediffbol etc.	
6.11	The propopsed solution should generate the alerts for attacks	
	The proposed solution should generate historical reports based on top	
	alerts ton attackers severity wise ton victims protocol wise	
6 1 2		
0.12		
	Gateway Anti Virus	
	The proposed solution should have an integrated Anti Virus solution	
7.1		
	The proposed solution should have webseest sheetmark contification	
7 0	The proposed solution should have webcoast checkmark certification	
1.2	for Anti virus/Anti Spvware.	
	The proposed solution must work as SMTP proxy not as MTA or relay	
7.3	server.	
	The proposed solution should support scanning for SMTP_POP3_IMAP	
71	ETD HTTD ETD over HTTD protocolc	
/.4		

	The basic virus signature database of proposed solution should	
	comprise complete wild list signatures and variants as well as malware	
7.5	like Phising, spyware.	
	The proposed solution should have facility to add signature/disclaimer	
7.6	in mails.	
	The proposed solution must support on appliance quarantined facility	
1.1	and also personlized user based guarantine area.	
78	The proposed solution should support blocking of dynamic/executable	
7.0	Thes based on file extension.	
7.9	actions for infocted, suspicious or protocted attachments mails	
	a Dron mail	
	h. Dolivor the mail without attachment	
	d. Notify to administrator	
	The proposed solution should support multiple anti virus policy for	
	sender/recipient email address or address group for notification	
7.10	setting, quarantine setting & file extension setting instead of single	
	The proposed solution should update the singature database at a	
	frequency of less than one hour & it should also support manual	
7.11	update.	
	For POP3 & IMAP traffic, the proposed system should strip the virus	
	infected attachement & send notification to receipient & Admin.	
7.12		
	The proposed solution should scan http traffic based on username,	
7 1 2	source/destination IP address or URL based regular expression.	
7.15	The proposed solution should provide option to hypass scapning for	
7.14	specific HTTP traffic	
	The proposed solution should support real mode & batch mode for	
7.15	HTTP virus scanning.	
	The proposed solution should provide historical reports based on	
7.16	username, IP address, Sender, Recepient & Virus Names.	
7 1 7	The proposed solution should have virus detection rate above 98%.	
7.17		
	Gateway Anti Spam	
0 1	The proposed solution should have an integrated Anti Spam solution.	
0.1	The proposed solution should have webseast shockmark cortification	
8.2	for Anti Spam	
	The proposed solution should have configurable policy options to	
8.3	select what traffic to scan for spam.	
	The proposed solution should support spam scanning for SMTP, POP3,	
8.4	IMAP.	
85	The proposed solution should support RBL database for spam	
0.5	detection. The proposed solution must support mail archive option to keep conv	
	of incoming & outgoing mails to administrator defined email address	
8.6	or incoming a bargoing mails to administrator defined email address.	
	The proposed solution should have multiple configurable policy for	
	email id/address group for quarantine setting, different actions instead	
8.7	of blanket policy.	
	The proposed solution must support on appliance quarantined facility	
ΩΩ	and also personlized user based quarantine area with email release	
0.0	ODTION The proposed solution should support real time spam detection % also	
	the proposed solution should support real time spath detection & also supports proactive virus detection technology which detects and blocks	
	the new outbreaks immediately and accurately	
8.9		
8.10	For Smtp traffic, the proposed solution support following actions	
	a. Tagging	
	b. Drop	
	c. Reject	

	d. Change recepient	
	e. Deliver the mail to recepient	
	The proposed solution should support IP/Email address white list/Black	
8.11	list facility.	
0.10	The proposed solution should support option to enable/disable	
8.12	antispam scanning for SMTP authenticated traffic.	
	The proposed solution should support spam detection using Recurrent	
8.13	pattern detection technology (RPD) to identify spam out breaks.	
	The proposed solution should support language independent spam	
8.14	detection functionality.	
0.45	The proposed solution should block image based spam mails i.e. email	
8.15	message with text embedded in a image file.	
8 16	The proposed solution should provide historical reports based on	
0.10	Username, IP address, Sender, Receptent & Spam Category.	
8.17	feature per user	
	The proposed solution must save bandwidth by blocking 85% of spam	
	messages at gateway level itself without downloading the message	
8.18	using advanced IP Reputation Filtering feature.	
	Proxy Solution Web content filtering	
9.1	The proposed solution shoule be webcoast checkmark certified.	
	The proposed solution should be integrated solution with local	
9.2	database instead of quering to database hosted somewhere on the	
9.3	The proposed solution must work as Standalone HTTP proxy.	
	The proposed solution must have 82+ web category with 40 Million	
9.4	URL database.	
9.5	The proposed solution must have following features inbuilt	
	a. Should able to block HTTPS based URLs with the help of	
	Leftificates. b. Should able to block LIPL based on regular expression	
	c. Should support exclusion list based on regular expression	
	d. Must have support to block any HTTP Unload traffic	
	a. Should able to block angule cached websites on based of category	
	e. Should able to block google cached websites of based of category.	
	f. Should able to block websited hosted on Akamai.	
	g. Should able to identify & block requests coming from behind proxy	
	server on the base of username & IP address.	
	h. Should able to identify & block URL translation request.	
0.4	The proposed solution should support application control blocking	
9.0	features as follows	
9.7	a. Should able to block known chat application like rando, MSN, AOL, Google, Rediff, Jabber etc.	
	b. Should support blocking of File transfer on known Chat application	
9.8	and FTP protocol.	
	The proposed solution must block HTTP or HTTPS based anonymous	
7.7	proxy request available on the internet.	
9.10	denied message for each category	
	The proposed solution should be CIPA compliant and should have	
9.11	predefined CIPA based internet acess policy.	
	The proposed solution should be able to identify traffic based on	
0 1 2	Productive, Neutral, unhealthy & non working websites as specified by	
7.12	admin. The proposed solution should have specific categories that would	
	reduce employee productivity, bandwidth choking sites and malicious	
9.13	websites.	
	The proposed solution should able to generate reports based on	
9.14	username, IP address, URL, groups, categories & category type.	
0.15	The proposed solution should support search criteria in repoprts to find	
9.15	Ithe relevant data.	

	The proposed solution should support creation of cyclic policy on	
	The proposed solution should support creation of cyclic policy on	
0 1 6	Dally/weekly/monthly/rearly basis for internet access on individual	
9.10	users/aroup of users.	
0.47	The proposed solution should support creation of internet access time	
9.17	policy for individual users or on group basis.	
	The proposed solution should support creation of Data transfer policy	
	on daily/weekly/monthly/yearly basis for individual user or group	
9.18	basis	
	The proposed solution should support creation of cyclic data transfer	
	policy on Daily/weekly/Monthly/yearly basis for individual user or on	
9.19	aroup	
	The proposed solution should have integrated handwidth	
9 20	menogement	
7.20	Imanagement.	
	The proposed solution should able to set guaranteed and burstable	
0.21	bandwidth per User/IP/Application on individual or shared basis.	
9.21		
0.00	The proposed solution should provide option to set different level of	
9.22	priority for critical application.	
	The proposed solution should provide option to define different	
	bandwidth for different schedule in a single policy & bandwidth should	
9.23	change as per schedule on the fly.	
	The proposed solution must provide web category based bandwidth	
9.24	management and priotization.	
	- ·	
	The proposed solution must provide logging and extensive controls on	
	Instant Messanging (IM) traffic for Yahoo and MSN messengers	
	1. Log of chat sessions for all or specific set of users.	
	2 Rules to control allow or deny chat, voice, web cam and file transfer	
	for specific ID or Crown of IDs	
	Anakiawa af transforrad files	
	3. Archieve of transfered files.	
9.25	4. Antivirus scanning on file transfered.	
	VPN	
10.1	The property equation should be webseet sheet merily earlified	
10.1	The proposed solution should be webcoast checkmark certified.	
10.0	The proposed solution should be VPNC Basic interop & AES interop	
10.2	certified.	
	The proposed solution should support Ipsec (Net-to-Net, Host-to-Host,	
10.3	Client-to-site), L2tp & PPTP VPN connection.	
	The proposed solution should support DES, 3DES, AES, Twofish,	
10.4	Blowfish, Serpent encryption algorithm.	
	The proposed solution should support Preshared keys & Digital	
10.5	certificate based authentication	
	The proposed solution should support Main mode & Aggressive mode	
	for phase 1 population	
	The proposed solution should support external cortificate authorities	
10.6	The proposed solution should support external certificate authorities.	
10.0	The proposed solution should support supert facility of Client to site	
	The proposed solution should support export facility of client-to-site	
10.7	configuration for hassle free VPN configuration in remote	
10.7	Laptop/Desktop.	
10.0	The proposed solution should support commonly available Ipsec VPN	
10.8	clients.	
	The proposed solution should support local certificate authority &	
10.9	should support create/renew/Delete self signed certificate.	
	The proposed solution should support VPN failover for redundancy	
	purpose where more than one connections are in group & if one	
	connection goes down it automatically switch over to another	
10.10	connection for zero downtime	
	The proposed solution should have preloaded third party certicate	
	authority including verisign/Entrust net/Microsoft and provide facility	
10.11	to unload any other contificate outherity	
	The proposed solution should support Threat free Insec/LOTD/DDTD	
10 12	VDN tuppol	
10.12	VPN LUTIFIEL	
	The propsed solution must provide on appliance SSL-VPN solution with	
	Web Access (Clientless), Full Tunnel and Split Tunnel control. Solution	
	Web Access (Clientless), Full Tunnel and Split Tunnel control. Solution should provide per user / group SSL-VPN access (Must be free license	

	SSL-VPN solution should be certified by VPNC for SSL Portal / FireFox	
	Compatibility / Java Script / Basic and Advanced Network Extensions	
10.14		
	Logging & Reporting	
	The proposed solution must have On-Appliance integrated iView	
11.1	reporting solution.	
	The proposed solution should support minimum 1000+ drill down	
11.2	reports	
	The proposed solution should provides reports in HTML, CSV, PDF,	
11.3	Excel & graphical format	
	The proposed solution should support logging of Antivirus, Antispam,	
	content filtering. Traffic discovery, IPS, Firewall activity on syslog	
11.4	server	
	The proposed solution should provides detailed reports for all files	
	uploaded via HTTP or HTTPS protocol. The report should include	
11.5	username/IP address/URL/File name/Date and Time.	
	The proposed solution should provide data transfer reports on the	
11.6	based of application, username. Ipaddress,	
	The proposed solution should provide connection wise reports for user,	
	source IP, destination IP, source port, destination port or protocol.	
11.7		
44.0	The proposed solution should have facility to send reports on mail	
11.8	address or on FTP server.	
	The proposed system solution provide approximate 45 regulatory	
11 0	compliance reports for SOX, HIPPA, PCI, FISMA and GLBA compliance.	
11.9		
11 10	The proposed solution should support Auditing facility to track all	
11.10	activity carried out Security appliance.	
11 11	The proposed solution should support multiple syslog server for	
	The proposed solution should forward logging information of all	
11 12	medules to evolve solution should for ward logging information of all	
	The proposition should have configurable option for email	
11.13	alorts /automatod Poport schoduling	
	The proposed solution should be able to provide detailed reports about	
11.14	all mails passing through the firewall	
	The proposed solution should provide reports for all blocked attempts	
11.15	done by users/lpaddress.	
	The proposed solution must be capable to derive logs and reports of	
	proprietary devices including UTMs, Proxy Firewalls, Custom	
11.16	Applications and Syslog-compatible devices.	
	The proposed solution must be capable to provide Multiple Dashboard	
	Report along with custom to customize the dashboards.	
11.17		
	The proposed inbuilt reporting solution should be capable to do the	
	forensic analysis to help organizations reconstruct the sequence	
	of events that occurred at the time of security breach through iView	
	logs and reports.	
11.18		