## Solution specification

Below is the list of specifications and capabilities that should be provided by the proposed Solution unless stated otherwise, provide details of the proposed features and specifications where needed.

# • NOTE: Below specifications are the minimum accepted spec. Equivalent or higher specs are accepted as well

Minimum Specification for NGFW		
Performance		Comply
New Session/sec	Min 130,000	
Firewall throughput	29,000Mbps	
Threat protection throughput	Min 1.200 Gbps	
Next generation firewall throughput	5 Gbps	
Concurrent connections	6.200,000	
IPsec throughput	Min 16 Gbps	
Users	Should handle 250 Normal users	
Mounting	1U rackmount	
Hardware		
Integrated Storage Capacity	Min 120GB Capacity	
Network Interfaces		
Integrated Port	8 x 1Gbps	

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	2x 10 GE SFP+	
	1 RG45 Mgmt.	
Other port	USB, Console port	
General		
The proposed system should be able to support the follow	ing security features on the same	
box:		
<ul> <li>State full Firewall</li> <li>IPS</li> </ul>		
<ul> <li>Web and Content Filtering (URL filtering)</li> </ul>		
<ul> <li>Application Control Settings</li> </ul>		
<ul> <li>Advanced Malware Protection</li> </ul>		
<ul> <li>Threat protection</li> </ul>		
o IPsec VPN		
<ul> <li>SSL offloading and forward proxy</li> </ul>		
<ul> <li>Deep packet inspection (DPI) and file blocking</li> </ul>		
NGFW configuration shall be based on the best practices	s recommended configuration by	
the vendor to ensure the highest NGFW performance		
Platform should be optimized for layer 7 application level	content processing	
IDeac V/DNL (using CCL or TLC)		
IPsec VPN (using SSL or TLS)		
Remote Access VPN (IPsec and SSL or TLS)		
High Availability: Active/Active and Active/Passive		
SSL Decryption for all application traffic, and ability to standard	block any unknown encryption	
Ability to block any detected unknown application		

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The proposed firewall shall support 802.1Q virtual Local Area Networks (VLANs) tagging (in	
tap, transparent, layer 2 and layer 3)	
The proposed firewall shall support policy based forwarding based on zone, source or	
destination address, source or destination port, application and Active Directory (AD)/	
Lightweight Directory Access Protocol (LDAP) Remote Authentication Dial in User Service	
(RADIUS) user or user group	
Should support network traffic classification which identifies applications across all port	
irrespective of port/protocol tactic	
The proposed firewall shall support in-box logging and reporting mechanism	
The following report output formats must be supported: HTML, PDF, CSV and others	
should integrate user-identification allowing Active Directory groups and specific user to	
access a particular application while denying others	
Firewall should support Voice based protocols (H.323, SIP, SCCP, MGCP etc.)	
Firewall should support Bandwidth customization / QoS	
Filewaii shoulu support Bahawidth customization / Qos	
Based on users, application category, and Web category	
The firewall should be capable of identifying and optionally preventing transfer of various	
files (i.e. MS Office, PDF etc.) via identified applications (i.e. P2P, IM, SMB etc.)	
The Firewall should take decision based on different matching parameters not based on	
layer 4 parameters. It should be based on applications, URL categories, IP address, security	
zones, username/group (s)	
Policies based on port-and-protocol and Application as the match criteria (application	
decision should not be done separately)	
Policy-based control by user, group or IP address (user control should be flexible to support	
a single user not only AD groups)	

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Support Geog	graphical Location policy in a security rule, where connections going to a	
country or co	untries can be blocked	
OS and Mana	gement Specs	
• The de	evice must have the latest software version	
	S software and configuration shall be easily backed up and restored Backup to Email, FTP and Cloud method	
	nistration and System Management: web-based configuration or CLI, Role- access control, Logging/Monitoring Facilities	
Authenticatio	on	
Authe     Databa	ntication : XAUTH/RADIUS, AD,SSO, LDAP, Terminal Services, Internal user ase	
	orts automatic security updates directly over a secure connection (i.e no idency of any intermediate device)	
Anti-Spyware		
Botner	ts detection/blocking	
Malwa	are Site Blocking	
DNS-b	ased botnet signatures	
DNS S	ink holing for malicious domains	
URL-Filtering		
• URL-fi	Itering on the same NGFW box	
Custor	mizable allow and block lists	
Custor	mizable categories	
Suppo	orts URL reputation-based filtering	
identif	dentification: should support the following authentication services for user- fication:	
	Directory, LDAP, Radius, Kerberos, Client Certificate ate all logs with user identity (traffic, IPS, URL, Data, etc.)	
	are an logo with aber lacinity (name, in 5, One, Data, etc.)	

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## 2. Scope of work:

#### Important Notes:

- There are certain activities to be performed and deliverables to be provided by winning bidder during execution of the Project. More detailed information on each of them is given in the next paragraphs.
- The winning bidder shall provide such Hardware, software, professional services, deliverables and support. The cost of these requirements or activities should be included in the fixed lump sum price submitted by the winning bidder.
- Final deliverables submitted by the winning bidder should be attached to an original official letter properly bounded, stamped and signed by the winning bidder as shall be defined and approved by ......

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• The duration time for the project will be 150 calendar days starting from the commencement date. In addition to 36 months support and maintenance from the mother company.

**Note:** that the winning bidder should provide any additional requirements needed for the proper delivering of the project and its cost should be included in the price submitted by the bidder.

## 3.1 Component 1: Firewall installation, configuration and training

### Winning Bidder Activities

For the proper completion of the Project, the winning bidder is required to perform the activities mentioned below. The winning bidder should provide any additional related activities needed for the proper fulfillment of the project and its cost should be included in the price submitted by the bidder.

- Procure, supply, deliver, install, configure, integrate, tune, and test the hardware and software listed in Section 5: BoQ, along with related software functionalities/features in section 2.
- Provide High- and Low-Level Design Documents (HLD/LLD) for the Firewall.
- Provide all needed equipment's including (cables, transceivers). Any equipment needed to make the Firewall work properly should be provided by the winning bidder even if not listed in section 5: BoQ
- Configure and hardening the firewall based on the Vendor best practices
- Do a proper Network segmentation
- Enable and test all the firewall features
- Developing firewall Management policy and service publishing policy as part of engagement to assure secure operation deployment approach that includes designing, configuring, testing, and migrating. This might include:
  - Firewall Change Management policy
  - Firewall Rules access request policy
  - Firewall Publishing Service policy
  - Firewall rules review and Audit policy
  - Firewall monitoring policy
- Provide Support for 36 months for all provided items listed in the project scope of work, starting from the date of preliminary acceptance.
- The Bidder shall provide complete documentation covering all aspects of the project, including but not limited to: user manuals, operations manual and configuration manuals and as built document.

- Provide the necessary licenses for the firewall, which are valid for 3 years starting from the date of activate the license after receiving and accepting the Hardware.
- Provide Technical support during the official working hours of the institution or outside the official working hours for emergency cases after the approval of the concerned department in the institution and as per the SLA in Annex 6.3.
- Provide onsite Training course for the Firewall covering administration and analysis aspects of the Firewall for two engineers from DPA
- Handle All Project Management tasks and prepare necessary work plans to ensure the successful project delivery.
- The winning bidder after finishing the installation and configuration of the Firewall should check all the policies setting on the new firewalls, enhance them if needed and make sure they follow the Vendor security best practice

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