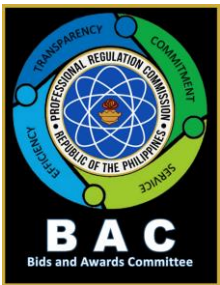






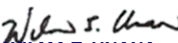
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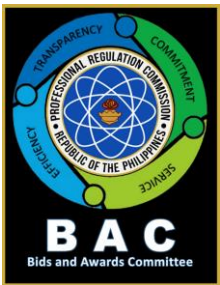
Section VII. Technical Specifications

No	Item	Specification	Statement of Compliance
		<b>PROCUREMENT OF SIX (6) FIREWALL APPLIANCE UNITS FOR REGIONAL OFFICES FOR THE CONDUCT OF COMPUTER-BASED LICENSURE EXAMINATIONS (CBLE)</b>	
1 LOT	6 Units	<b>1. Hardware Features</b> <b>Hardware Specifications</b> <ul style="list-style-type: none"><li>- Form Factor : 1U Rackmount</li><li>- Processor : x86 AMD CPU</li><li>- CPU Memory: 8 GB (2400) DDR4</li><li>- Xstream Flow Processor (NPU): Marvell NPU</li><li>- Memory : 4 GB DDR4</li><li>- Storage : 1x min. 120 GB SATA-III</li><li>- Ports : 8x GE Copper (w/ 1pair fixed bypass ports), 2x SFP GE Fiber</li><li>- I/O Ports : 1x COM RJ45, 2x USB 3.0 / 1x USB 2.0 / 1x RJ45 MGMT / , 1x Micro USB (cable included) / w/ 1x expansion bay</li><li>- Display : Multi-function LCD display</li><li>- Power Supply : Internal auto-ranging DC 100-240VAC, 3-6A@50-60 Hz w/ (External Redundant PSU Option)</li><li>- Product Certifications (Safety, EMC): CB, CE, UL, FCC, ISED, VCCI, CCC*, KC, BSMI*, RCM, NOM, Anatel*</li></ul> <b>Max. Power-over-Ethernet (using Flexi Port module)</b> <ul style="list-style-type: none"><li>- 1 module: 4 ports, 60w max.</li></ul> <b>Security Performance</b> <ul style="list-style-type: none"><li>- Firewall Throughput : 30,000 Mbps</li><li>- IPS throughput : 5,800 Mbps</li><li>- Threat Protection throughput : 1,250 Mbps</li><li>- Concurrent connections : 6,500,000</li><li>- New connections/sec : 134,700</li><li>- Maximum licensed users : unrestricted</li></ul> <b>2. Base Firewall Features</b> <b>General Management</b>	






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- Purpose-built, streamlined user interface and firewall rule management for large rule sets with grouping with at-a-glance rule feature and enforcement indicators
- Two-factor authentication (One-time-password) support for administrator access, user portal, IPSec and SSL VPN
- Advanced trouble-shooting tools in GUI (e.g. Packet Capture)
- High Availability (HA) support clustering two devices in active-active or active-passive mode with plug-and-play Quick HA setup
- HA support in AWS using the AWS Transit Gateway
- Full command-line-interface (CLI) accessible from GUI
- Role-based administration
- Automated firmware update notification with easy automated update process and roll-back features
- Reusable system object definitions for networks, services, hosts, time periods, users and groups, clients and servers
- Self-service user portal
- Configuration change tracking
- Flexible device access control for services by zones
- Email or SNMP trap notification options
- SNMPv3 and Netflow support
- Central management support via Cloud-based Unified Console
- Automatic Email Notifications for any important event
- Backup and restore configurations: locally, via FTP or email; on-demand, daily, weekly or monthly
- API for 3rd party integration
- Interface renaming
- Cloud-based license management via Licensing Portal

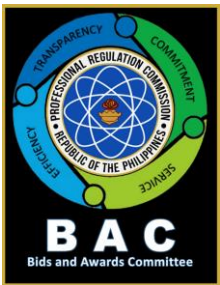
**Central Firewall Management**

- Cloud-based management and reporting for multiple firewalls
- Group policy management allows objects, settings, and policies to be modified once and automatically synchronized to all firewalls in the group





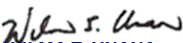
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- Task Manager provides a full historical audit trail and status monitoring of group policy changes
- Backup firmware management which stores the last five configuration backup files for each firewall with one that can be pinned for permanent storage and easy access
- Firmware updates which offer one-click firmware updates to be applied to any device
- Group firewall management via the Partner Dashboard
- Firmware update scheduling
- Multi-firewall reporting across firewall groups

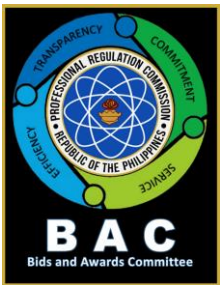
**Firewall, Networking & Routing**

- Stateful deep packet inspection firewall
- Packet processing architecture that provides extreme levels of visibility, protection, and performance through stream-based packet processing
- TLS inspection with high performance, support for TLS 1.3 with no downgrading, port agnostic, enterprise-grade policies, unique dashboard visibility, and compatibility troubleshooting
- DPI Engine that provides stream scanning protection for IPS, AV, Web, App Control, and TLS Inspection in a single high-performance engine
- Accelerates SaaS, SD-WAN, and cloud traffic such as VoIP, video, and other trusted applications via FastPath through the new Xstream Flow Processors.
- Network Flow FastPath delivers policy-driven and intelligent acceleration of trusted traffic automatically
- Improved FastPath support for active-passive pairs
- Pre-packaged exception list
- Covers all ports/protocols
- Supports all modern cypher suites
- User, group, time, or network based policies
- Access time policies per user/group
- Enforce policy across zones, networks, or by service type





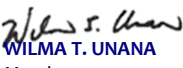
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- Zone-based firewall
- Default zones for LAN, WAN, DMZ, LOCAL, VPN and WiFi
- Full VLAN support
- Zone and VLAN isolation and zone-based policy support.
- Micro-segmentation and auto-isolation via Synchronized Security
- Custom zones on LAN or DMZ
- Customizable NAT policies with IP masquerading and full object support to redirect or forward multiple services in a single rule with a convenient NAT rule wizard to quickly and easily create complex NAT rules in just a few clicks
- Flood protection: DoS, DDoS and portscan blocking
- Country blocking by geo-IP
- Advanced Routing: static, multicast (PIM-SM), and dynamic (RIP, BGP, OSPF) with full 802.1Q VLAN support
- Upstream proxy support
- Protocol independent multicast routing with IGMP snooping
- Bridging with STP support and ARP broadcast forwarding
- VLAN DHCP support and tagging
- VLAN bridge support
- Jumbo Frame Support
- SD-WAN link balancing: multiple Internet connections, auto-link health check, automatic failover, automatic and weighted balancing, and granular multipath rules
- Wireless WAN support (n/a in virtual deployments)
- 802.3ad interface link aggregation
- Full configuration of DNS, DHCP and NTP

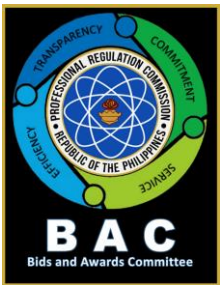
SD-WAN

- Support for multiple WAN link options including VDSL, DSL, cable, and 3G/4G/LTE cellular with essential monitoring, balancing, failover and fail-back
- Application path selection and routing, which is used to ensure quality and minimize latency for mission-critical applications such as VoIP
- Synchronized SD-WAN, a Synchronized Security feature which leverages the added clarity and reliability of application





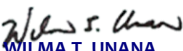
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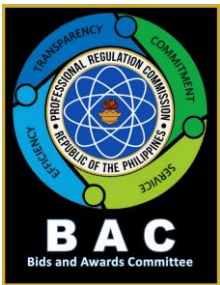
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		<p>identification that comes with the sharing of Synchronized Application Control information between managed endpoints and Firewall</p> <ul style="list-style-type: none"><li>- Synchronized SD-WAN application routing over preferred links via firewall rules or policy-based routing</li><li>- Robust VPN support including IPsec and SSL VPN</li><li>- Centralized VPN orchestration</li></ul> <p><b>User Self-Serve Portal</b></p> <ul style="list-style-type: none"><li>- Download SSL remote access client (Windows) and configuration files (other OS)</li><li>- Hotspot access information</li><li>- Change user name and password</li><li>- View personal internet usage</li><li>- Access quarantined messages and manage user-based block/allow sender lists (requires Email Protection)</li></ul> <p><b>Base VPN Options</b></p> <ul style="list-style-type: none"><li>- IPsec and SSL VPN tunnels</li><li>- Wizard-based orchestration</li><li>- Site-to-site VPN: SSL, IPsec, 256- bit AES/3DES, PFS, RSA, X.509 certificates, pre-shared key</li><li>- Remote Ethernet Device (RED) site-to-site VPN tunnel (robust and light-weight)</li><li>- L2TP and PPTP</li><li>- Route-based VPN</li><li>- Remote access: SSL, IPsec, iPhone/iPad/ Cisco/Andriod VPN client support</li><li>- IKEv2 Support</li><li>- SSL client for Windows and configuration download via user portal</li><li>- Enforcement of TLS 1.2 for SSL site-to-site and remote access VPN tunnels</li></ul> <p><b>3. Network Protection Subscription</b></p> <ul style="list-style-type: none"><li>- Intrusion Prevention (IPS)</li><li>- ATP and Security Heartbeat</li><li>- SD-Remote Ethernet Device Management</li><li>- Clientless VPN</li></ul> <p><b>4. Web Protection Subscription</b></p> <ul style="list-style-type: none"><li>- Web Protection and Control</li><li>- Application Protection and Control</li><li>- Web &amp; App Traffic Shaping</li></ul>	
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




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		<b>5. Zero-Day Protection Subscription</b> <ul style="list-style-type: none"><li>- Dynamic Sandbox Analysis</li><li>- Threat Intelligence Analysis</li></ul> <b>6. Reporting</b> <ul style="list-style-type: none"><li>- Central Firewall Reporting</li></ul>	
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**ADDITIONAL REQUIREMENTS AND SCOPE OF WORK:**

**1. SCOPE OF WORK:**

Supply, Delivery and Configuration of 6 units Firewall  
(\*must be compatible to existing firewall of PRC Central Office)

**2. LOCAL ONSITE SUPPORT**

1 yr. Limited Onsite Technical Support – 8x5 Onsite Assistance with 4 hrs. Response time  
during Regular Business Hours (Monday to Friday excluding Holidays, 9AM to 6PM).

**3. CERTIFICATIONS**

Supplier must have at least 3 Manufacturer Certified Engineers  
Supplier must have at least 1 Certified Architect  
Supplier must have Certification from the Manufacturer as Silver Partner of the Product being offered  
Supplier must have Certification from the Manufacturer as Synchronized Security Partner.

**DELIVERY:**

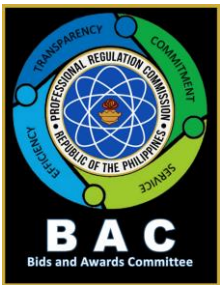
45 calendar days upon receipt of contract

1. Compliance with the statements must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate.
2. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection.
3. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of **ITB** Clause 3.1 (a) (ii) and/or **GCC** Clause 2.1 (a) (ii).





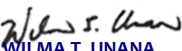
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\_\_\_\_\_  
SIGNATURE OVER PRINTED NAME  
OF AUTHORIZED REPRESENTATIVE,  
DESIGNATION AND PRINTED NAME OF COMPANY