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Section VII. Technical Specifications

Item	Qty	Specification	Statement of Compliance *Statements of "Comply" or "Not Comply"*
ITB No. 2024-27 PROCUREMENT OF FIREWALL APPLIANCE UNITS FOR REGIONAL OFFICES FOR THE CONDUCT OF COMPUTER-BASED LICENSURE EXAMINATIONS (CBLE)	**4 units**	**HARDWARE FEATURES** **Hardware Specifications** • Form Factor: 1U Rackmount • Processor: x86 AMD CPU • CPU Memory: 8 GB (2400) DDR4 • Xstream Flow Processor (NPU): Marvell NPU • Memory: 4 GB DDR4 • Storage: 1x min. 120 GB SATA-III • Ports: 8x GE Copper (w/ 1pair fixed bypass ports), 2x SFP GE Fiber • 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 • Display: Multi-function LCD display • Power Supply: Internal auto-ranging DC 100-240VAC, 3-6A@50-60 Hz w/ (External Redundant PSU Option) • Product Certifications (Safety, EMC): CB, CE, UL, FCC, ISED, VCCI, CCC*, KC, BSMI*, RCM, NOM, Anatel* **Max. Power-over-Ethernet (using Flexi Port module)** • 1 module: 4 ports, 60w max. **Security Performance** • Firewall Throughput: 30,000 Mbps • IPS throughput: 5,800 Mbps • Threat Protection throughput: 1,250 Mbps • Concurrent connections: 6,500,000 • New connections/sec: 134,700 • Maximum licensed users: unrestricted	

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BASE FIREWALL FEATURES

General Management

- 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) supports 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

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		• 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. • 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 polices, 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"	

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BAGONG PILIPINAS

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		• 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 cipher suites. • User, group, time, or network-based policies. • Access time polices per user/group. • Enforce policy across zones, networks, or by service type. • 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.	

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- 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 identification that comes with the sharing of Synchronized Application Control information between managed endpoints and Firewall
- Synchronized SD-WAN application routing over preferred links via firewall rules or policy-based routing
- Robust VPN support including IPSec and SSL VPN
- Centralized VPN orchestration

User Self-Serve Portal

- Download SSL remote access client (Windows) and configuration files (other OS)
- Hotspot access information
- Change username and password.
- View personal internet usage.

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- Access quarantined messages and manage user-based block/allow sender lists (requires Email Protection)

Base VPN Options

- IPSec and SSL VPN tunnels
- Wizard-based orchestration
- Site-to-site VPN: SSL, IPSec, 256- bit AES/3DES, PFS, RSA, X.509 certificates, pre-shared key
- Remote Ethernet Device (RED) site-to-site VPN tunnel (robust and light-weight)
- L2TP and PPTP
- Route-based VPN
- Remote access: SSL, IPsec, iPhone/iPad/ Cisco/Andriod VPN client support
- IKEv2 Support
- SSL client for Windows and configuration download via user portal
- Enforcement of TLS 1.2 for SSL site-to-site and remote access VPN tunnels

NETWORK PROTECTION SUBSCRIPTION

- Intrusion Prevention (IPS)
- ATP and Security Heartbeat
- SD-Remote Ethernet Device Management
- Clientless VPN

WEB PROTECTION SUBSCRIPTION

- Web Protection and Control
- Application Protection and Control
- Web & App Traffic Shaping

ZERO-DAY PROTECTION SUBSCRIPTION

- Dynamic Sandbox Analysis
- Threat Intelligence Analysis

REPORTING

- Central Firewall Reporting

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		ADDITIONAL REQUIREMENTS AND SCOPE OF WORK;	
		Scope of Work:	
		• Supply, Delivery and Configuration of 4 units of Firewall	
		(*must be compatible to the existing firewall of PRC Central Office)	
		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, 9 AM to 6 PM).	
		Certifications	
		• Supplier must have at least 3 Manufacturer Certified Engineers of the product being offered.	
		• Supplier must have at least 1 Certified Architect of the product being offered.	
		• Supplier must have Certification from the Manufacturer as Gold Partner of the product being offered.	
		• Supplier must have Certification from the Manufacturer as a Synchronized Security Partner.	

Delivery Period: **Within 45 calendar days upon receipt of Notice to Proceed**

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 4.

ACKNOWLEDGEMENT AND COMPLIANCE WITH THE TERMS OF REFERENCE FOR THE PROCUREMENT OF FIREWALL APPLIANCES FOR REGIONAL OFFICES FOR THE CONDUCT OF COMPUTER-BASED LICENSURE EXAMINATION (CBLE)

_____
SIGNATURE OVER PRINTED NAME
OF AUTHORIZED REPRESENTATIVE,
DESIGNATION AND PRINTED NAME OF COMPANY

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