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Central Office

P. Paredes St., Sampaloc, Metro Manila Tel. Fax: 5-310-0037 Email: bac@prc.gov.ph





Section VII. Technical Specifications

Lot 1: Firewall Appliance for Regional Offices for the Conduct of CBLE

Quantity: Six (6) units

Description: The winning bidder shall provide the following minimum specifications:

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 / , 1	x
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 v (External Redundant PSU Option)	w/
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	
Base Firewall Features must include but not limited to:	
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) 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	
Note-based administration	



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Automated firmware update notification with easy automated update	process
and roll-back features	
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	9
Backup and restore configurations: locally, via FTP or email; on-den	nand,
daily, weekly or monthly	
API for 3rd party integration	
Interface renaming	
Cloud-based license management via Licensing Portal	
Central Firewall Management	-0
Cloud-based management and reporting for multiple firewalls provid	
group policy management and a single console for all your IT securi	ity
products	
Group policy management allows objects, settings, and policies to be	
modified once and automatically synchronized to all firewalls in the	
Task Manager provides a full historical audit trail and status monitor	ing 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 perman	nent
storage and easy access	
Firmware updates which offer one-click firmware updates to be appliany device	ied to
Zero-touch deployment enables the initial configuration to be perform	nod in
Cloud-based management.	neu m
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 visibil	:+
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, W	leh Ant
Control, and TLS	co, App
Inspection in a single high-performance engine	
Accelerates SaaS, SD-WAN, and cloud traffic such as VoIP, video, a	and
other trusted applications via FastPath through the new Xstream Flow	
	, v
Processors	
Processors. Network Flow FastPath delivers policy-driven and intelligent acceler	ation of
Network Flow FastPath delivers policy-driven and intelligent acceler	ation of
	ation of

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Covers all ports/protocols	
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.	_
Custom zones on LAN or DMZ	0
Customizable NAT policies with IP masquerading and full object support	
redirect or forward multiple services in a single rule with a convenient NA	41
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	_
Bridging with STP support and ARP broadcast forwarding	_
SD-WAN link balancing: multiple Internet connections, auto-link health	
check, automatic failover, automatic and weighted balancing, and granula	r
multipath rules SD-WAN	_
Support for multiple WAN link options including VDSL, DSL, cable, and	1
3G/4G/LTE cellular with	1
essential monitoring, balancing, failover and fail-back	
Application path selection and routing, which is used to ensure quality an	d
minimize latency for	a
mission-critical applications such as VoIP	
Synchronized SD-WAN, a Synchronized Security feature which leverage	s
the added clarity and reliability of application identification that comes w	
the sharing of Synchronized Application Control information between	
managed endpoints and Firewall	
Synchronized SD-WAN application routing over preferred links via firew	all
rules or policy-based routing	
Affordable, flexible, and zero-touch or low-touch deployment	
Robust VPN support including IPSec and SSL VPN	
Centralized VPN orchestration	
User Self-Serve Portal	
Base VPN Options	
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	

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Dynamic Sandbox Analysis	0	
Threat Intelligence Analysis		
Reporting		
Central Firewall Reporting		

Other Requirements and Qualifications

- 1. The winning bidder shall supply, deliver, install, and configure six (6) units of Firewall Appliance, which shall be compatible with the existing firewall of the Regional Offices;
- 2. Bidders shall submit the following proof/certifications along with the other technical eligibility requirements (Technical Component Envelope):
 - a. Proof that bidders have Manufacturer Certified Architect/s for the product offered (names and certifications);
 - b. Proof that bidders have Manufacturer Certified Engineer/s for the product offered (names and certifications);
 - c. Certification from the Manufacturer as Gold Partner of the product offered or its equivalent;
 - d. Certification from the Manufacturer as Synchronized Security Partner or its equivalent;
 - e. Manufacturers Certificate that the products offered are available and serviceable for at least five (5) years; and
- 3. The winning bidder shall provide one (1)-year Limited Onsite Technical Support 8x5 Onsite Assistance with four (4)-hour response time during regular business hours (Monday to Friday excluding holidays, 9 AM to 6 PM).

Warranties

The winning bidder shall provide hardware warranty and Return Merchandise Authorization (RMA) with Advanced Exchange for one (1) year.

The warranty shall commence upon issuance of Notice of Acceptance by the end-user.

Delivery

The firewall appliance shall be delivered at the PRC Central Office in Morayta, and shall be completed within forty-five (45) days from receipt of the signed Notice to Proceed.

- 1. Compliance with the statements must be supported by evidence in a Bidder's Bid and cross-referenced to that evidence. Evidence shall be in the form of the manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data, brochures, 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 bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution

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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.

ACKNOWLEDGMENT AND COMPLIANCE WITH THE TERMS OF REFERENCE FOR LOT 1: EARLY PROCUREMENT ACTIVITY FOR FIREWALL APPLIANCE FOR THE REGIONAL OFFICE FOR THE CONDUCT OF CBLE

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



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Lot 2: Firewall Appliance for Central Office

Quantity: One (1) Unit

Description: The winning bidder shall provide the following minimum specifications:

Hardwar	e Specifications
	tor: 1U Rackmount
and second in 1995	: x86 AMD CPU
	nory: 32 GB (2666) DDR4 ECC
	Flow Processor (NPU): Marvell NPU
	8 GB DDR4 ECC
	2x min. 240 GB SATA-III
	GE Copper, 4x 2.5 GE Copper, 4x SFP+ 10GE Fiber
	ort pairs: 2
	l port density (incl. use of modules) : 28
	add-on connectivity :SFP DSL module (VDSL2) SFP/SFP+ Transceivers
	: 1x COM RJ45, 2x USB 3.0 / 1x USB 2.0 / 1x RJ45 MGMT / , 1x Micr le included) / w/ 2x expansion bay
	Multi-function LCD display
ED 17754	upply : Internal Hot Swappable auto-ranging DC 100-240VAC, 3.7
	-60 HzInternal Redundant PSU (Option)
	ertifications (Safety, EMC) : CB, CE, UKCA, UL, FCC, ISED, VCCI,
KC, RCM	I, NOM,
	CC, BSMI, TEC, SDPPI
	ver-over-Ethernet (using Flexi Port module)
	4 ports, 60w max.
	Performance
	Throughput : 80,000 Mbps
IPS throu	ghput : 36,500 Mbps
Threat Pro	otection throughput : 8,650 Mbps
Concurren	nt connections : 17,200,000
New conr	ections/sec: 450,000
IPsec VPI	N throughput: 75,550 Mbps
IPSec VP	N concurrent tunnels: 8,500
SSL VPN	concurrent tunnels: 10,000
Maximum	licensed users : unrestricted
Base Fire	wall Features must include but not limited to:
General I	Management
	uilt, streamlined user interface and firewall rule management for large rul
sets with g	grouping with at-a-glance rule feature and enforcement indicators
Two-facto	or authentication (One-time-password) support for administrator access
	l, IPSec and SSL VPN
Advanced	trouble-shooting tools in GUI (e.g. Packet Capture)
passive m	ilability (HA) support clustering two devices in active-active or active ode with plug-and-play Quick HA setup

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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 upda	te process an
roll-back features	ate process and
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	
SNMP with a Custom MIB and support for IPSec VPN Tunnels	
Virtual WAN zone support on custom gateways for post deploym	ent single arn
usage Central Firewall Management	
Cloud-based management and reporting for multiple firewalls provid	es group polici
management and a single console for all your IT security products	es group pone.
Group policy management allows objects, settings, and policies to be	modified once
and automatically synchronized to all firewalls in the group	mounied one
Task Manager provides a full historical audit trail and status monit	toring of group
policy changes	toring of group
Backup firmware management which stores the last five configuration	on backun file
for each firewall with one that can be pinned for permanent storage a	
Firmware updates which offer one-click firmware updates to be applied	ed to any device
Zero-touch deployment enables the initial configuration to be performed	
based management.	inica in cioaa
Group firewall management via the Partner Dashboard	
Firmware update scheduling	
Multi-firewall reporting across firewall groups	
Firewall, Networking & Routing	
Stateful deep packet inspection firewall	122
Packet processing architecture that provides extreme levels of visibi	lity, protection
and performance through stream-based packet processing	
TLS inspection with high performance, support for TLS 1.3 with no	o downgrading
port	1
agnostic, enterprise-grade polices, unique dashboard visibility, and	1 compatibility
troubleshooting	
DPI Engine that provides stream scanning protection for IPS, AV, We and	
	TLS
Inspection in a single high-performance engine	1 - 41 - 4
Accelerates SaaS, SD-WAN, and cloud traffic such as VoIP, video, and	nd other trusted
applications via FastPath through the new Xstream Flow Processors.	
Network Flow FastPath delivers policy-driven and intelligent acceler	ation of trustee
traffic automatically	
Improved FastPath support for active-passive pairs	
Pre-packaged exception list	
Covers all ports/protocols	
User, group, time, or network based policies	

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A agont time notices non user/aroun	
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.	_
Custom zones on LAN or DMZ	
Customizable NAT policies with IP masquerading and full object support to redire or forward multiple services in a single rule with a convenient NAT rule wizard 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, OSF with full 802.1Q VLAN support	۲
Bridging with STP support and ARP broadcast forwarding	
SD-WAN link balancing: multiple Internet connections, auto-link health chea	ck
automatic failover, automatic and weighted balancing, and granular multipath rule SD-WAN	
Support for multiple WAN link options including VDSL, DSL, cable, a 3G/4G/LTE cellular w	
essential monitoring, balancing, failover and fail-back	
Application path selection and routing, which is used to ensure quality and minimi	ize fo
mission-critical applications such as VoIP	10
Synchronized SD-WAN, a Synchronized Security feature which leverages the add	er
clarity and reliability of application identification that comes with the sharing	0
Synchronized Application Control information between managed endpoints a	
Firewall	
Synchronized SD-WAN application routing over preferred links via firewall rules policy-based routing	0
Affordable, flexible, and zero-touch or low-touch deployment	-
Robust VPN support including IPSec and SSL VPN	_
Centralized VPN orchestration	
User Self-Serve Portal	
Base VPN Options	
Network Protection Subscription	
	_
Intrusion Prevention (IPS)	
ATP and Security Heartbeat	_
SD-Remote Ethernet Device Management Clientless VPN	
Web Protection Subscription	
Web Protection and Control	_
Cloud Application Visibility	
Application Protection and Control	
Web & App Traffic Shaping	
Zero-Day Protection Subscription	
Dynamic Sandbox Analysis	
Threat Intelligence Analysis	
Reporting	_
Reporting Central Firewall Reporting Central Firewall Reporting Advanced	

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Other Requirements and Qualifications

- 1. The winning bidder shall supply, deliver, install, and configure one (1) unit of Firewall Appliance, which shall be compatible with the existing firewall of the Central Office;
- 2. Bidders shall submit the following proof/certifications along with the other technical eligibility requirements (Technical Component Envelope):
 - a. Proof that bidders have Manufacturer Certified Architect/s for the product offered (names and certifications);
 - b. Proof that bidders have Manufacturer Certified Engineer/s for the product offered (names and certifications);
 - c. Certification from the Manufacturer as Gold Partner of the product offered or its equivalent;
 - d. Certification from the Manufacturer as Synchronized Security Partner or its equivalent;
 - e. Manufacturers Certificate that the products offered are available and serviceable for at least five (5) years; and
- 3. The winning bidder shall provide one (1)-year Limited Onsite Technical Support 8x5 Onsite Assistance with four (4)-hour response time during regular business hours (Monday to Friday excluding holidays, 9 AM to 6 PM).

Warranties

The winning bidder shall provide hardware warranty and Return Merchandise Authorization (RMA) with Advanced Exchange for one (1) year.

The warranty shall commence upon issuance of Notice of Acceptance by the end-user.

Delivery

The firewall appliance shall be delivered at the PRC Central Office in Morayta, and shall be completed within forty-five (45) days from receipt of the signed Notice to Proceed.

- 1. Compliance with the statements must be supported by evidence in a Bidder's Bid and cross-referenced to that evidence. Evidence shall be in the form of the manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data, brochures, 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 bidder's 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.



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ACKNOWLEDGMENT AND COMPLIANCE WITH THE TERMS OF REFERENCE FOR LOT 2: EARLY PROCUREMENT ACTIVITY FOR FIREWALL APPLIANCE FOR CENTRAL OFFICE

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

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