



BUREAU OF CUSTOMS

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REQUEST FOR QUOTATION

The Bureau of Customs (BOC), through its Administration Office (AO), will undertake a Small Value Procurement for **"Supply, Delivery, Installation and Implementation for Network Switches at the Pre-fabricated Office and Warehouse"** in accordance with the Revised Implementing Rules and Regulations of Republic Act No. 9184. The details of the project are as follows:

Name of Project: **Supply, Delivery, Installation and Implementation for Network Switches at the Prefabricated Office and Warehouse**

Location: **Bureau of Customs Port Area Manila**

Approved Budget for the Contract: **Nine Hundred Fifty-Thousand Pesos (Php950,000.00) inclusive of tax**

Specifications

QTY.	DESCRIPTION
1 UNIT	DISTRIBUTION SWITCH
	Must have twenty-four (24) x 10/100/1000 Ethernet ports and four (4) x 1G SFP ports
	Capable of supporting 10G, 25G, 40G fiber ports and multigigabit (1/2.5/5/10Gbps) Ethernet ports via additional expansion module
	Must be 1RU and include 19" rack mount kit
	Must have redundant hot-swappable power-supplies
	Capable of supporting stacking technology that allows up to eight (8) switches in a single stack with dedicated stacking bandwidth of 440 Gbps or higher
	Capable of supporting feature that allows aggregation of available power in a switch stack and be able share it across the entire stack for resiliency
	Must include two (2) x 1000Base-SX transceivers and fiber optic cable for fiber uplink
	Must have 207 Gbps switching capacity or higher
	Must have 153 Mpps forwarding rate or higher
	Must have 16GB flash or higher
	Must have 8GB DRAM or higher
	Must support 32,000 MAC address or higher

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Must have built-in Web UI for GUI-based device management
Capable of supporting external Bluetooth dongle which can be connected to the switch to allow wireless console access for management and configuration using Web UI/CLI including image transfer.
Must have built-in RFID tag for easy asset and inventory management using commercial RFID readers
Must have support for RIPv1/v2, RIPv6, OSPF, BGP, ISIS and OSPF3 routing protocols
Must have support for PIM Sparse Mode (PIM SM) and Source-Specific Multicast (SSM)
Must have eight egress queue per port
Must support 802.1p CoS, QoS, Differentiated Services Code Point (DSCP) field classification, Committed Information Rate (CIR) and Shaped Round Robin (SRR) scheduling
Must have support for full application flow analysis, export, allow flows to be user-defined to customize the data collection to fit specific requirements and capable of delivering flow collection 62,000 flows or more
Must have feature that allows detecting, classifying more than 1400 applications on wired ports such as Facebook, Skype, Office 365 and can support application visibility for custom applications
Must have feature that allows separating updates of control plane and data plane during software upgrade to significantly reduce the traffic downtime/impact by almost half when compared to regular upgrade process
Capable of supporting feature that allows to isolate a switch from the network in order to perform maintenance tasks like troubleshooting, real-time debugging without impact on the production
Capable of supporting software patch fixes during operation that can take effect without reloading the system to minimize traffic impact
Must have highly resilient architecture for stacked deployment that allows stateful switch over with sub-50-ms failover
The proposed switch must be built to support intent-based networking and must be fully programmable for future proofing.
Must support open APIs over NETCONF and RESTCONF using YANG data models
Must support on-box Python scripting

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	Capable of supporting external USB 3.0 SSD pluggable storage with up to 120GB capacity for container-based application hosting and supports setting of password on the drive for protection against unauthorized access
	Must have support for IEEE 802.1ae MACsec with AES-128 bit encryption
	Can support IEEE 802.1x, IEEE 1588v2 and IEEE 802.1ba Must have capability of providing assurance that switch both hardware and software are authentic and unmodified before or during bootup for protection against counterfeit hardware and software modification and must have corresponding public reference or whitepaper to support this
	Must have digitally signed software to protect against insertion of counterfeit and tampered software

QTY.	1G MMF uplink
2 runs	Must have twenty-four (24) x 10/100/1000 Ethernet ports and four (4) x 1G SFP ports

	DESCRIPTION
4 Units	POE ACCESS SWITCH
	Must have twenty-four (24) x 10/100/1000 Ethernet ports and dedicated four (4) x 1G SFP fixed uplink ports
	Must be 1RU and include 19" rack mount kit
	Must support IEEE 802.3at PoE+ on all ports and can support PoE power budget of 370W or more
	Must be capable of providing uninterrupted PoE power to attached PoE-enabled devices even when the switch is booting, so that there is no disruption during a switch reboot.
	Must have hot-swappable power supply
	Must be capable of stacking up to eight (8) switches in a single stack with dedicated stacking bandwidth of 80Gbps or higher
	Must have 54 Gbps switching capacity or higher
	Must have 40 Mpps forwarding rate or higher
	Must have 2 GB DRAM or higher

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Must have 4 GB flash or higher
Must support 16,000 MAC address or more
Must have built-in Web UI for GUI-based device management
Capable of supporting external bluetooth dongle which can be connected to the switch to allow wireless console access for management and configuration using Web UI/CLI including image transfer.
Must have built-in RFID tag for easy asset and inventory management using commercial RFID readers
Must have support for Layer 2 and basic Layer 3 routing protocols such as static, RIPv1/v2, RIPng and PBR
Must have support for full application flow analysis, export, allow flows to be user-defined to customize the data collection to fit specific requirements and capable of delivering flow collection 14,000 flows or more
Must have eight egress queue per port
Must support 802.1p CoS, QoS, Differentiated Services Code Point (DSCP) field classification, Committed Information Rate (CIR) and Shaped Round Robin (SRR) scheduling
Capable of supporting cold patching to provide fixes for security vulnerabilities, critical bugs without waiting for the next maintenance release for resiliency
Must have highly resilient architecture for stacked deployment that allows stateful switch over with sub-50-ms failover
The proposed switch must be built to support intent-based networking and must be fully programmable for future proofing.
Must support open APIs over NETCONF and RESTCONF using YANG data models
Must support on-box Python scripting
Must have support for IEEE 802.1ae MACsec with AES-128 bit encryption
Can support IEEE 802.1x, IEEE 802.1Q, IEEE 802.1w and IEEE 802.1s
Must have capability of providing assurance that switch both hardware and software are authentic and unmodified before or during bootup for protection against counterfeit hardware and software modification and must have corresponding public reference or whitepaper to support this

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Must have digitally signed software to protect against insertion of counterfeit and tampered software

Inclusions:

- 1. Supply, Delivery, Installation, and Implementation**
- 2. Knowledge Transfer and Admin Training**
- 3. 24x7 access to TTI helpdesk**
- 4. Service availability 24 hours a day, Mondays thru Sundays, inclusive of Holidays**
- 5. 1 Year warranty**

Delivery Duration/ Term: 10 working days

Interested suppliers are required to submit their valid and current Mayor's Permit, DTI/SEC Registration (for partnerships/corporations, General Information Sheet & Articles of Incorporation shall also submitted), PHILGEPS Registration Certificate, Omnibus Sworn Statement, Latest Income/Business Tax Return and duly signed price quotation form (Annex "A").

Submission of quotation and eligibility documents in hard copy and sealed is on or before September 01, 2020 10:00 a.m., at General Services Division (GSD), Ground Floor, OCOM Building, Port Area, Manila and see posting in PhilGeps website.

Award of contract shall be made to the lowest quotation, which complies with the minimum description as stated above and other terms and conditions stated in the price quotation form.

Any interlineations, erasures or overwriting shall be valid only if they are signed or initialed by the bidder or his/her duly authorized representative/s

The BOC reserves the right to accept or reject any or all quotations and to impose additional terms and conditions as it may deem proper.

For inquiry, you may contact us at Telefax no. 527-9757 or email us at bacsecretariat@customs.gov.ph.

Very truly yours,

RAQUEL G. DE JESUS

Acting Chief, General Services Division

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Annex "A"

PRICE QUOTATION FORM

Date

The Bids and Awards Committee
Bureau of Customs
Port Area, Manila

Sir/Madam:

After having carefully read and accepted the terms and conditions in the Request for Quotation, hereunder is our quotation/s for the items as follows:

QTY.	DESCRIPTION	Unit Price	Total Price
1 UNIT	DISTRIBUTION SWITCH		
	Must have twenty-four (24) x 10/100/1000 Ethernet ports and four (4) x 1G SFP ports		
	Capable of supporting 10G, 25G, 40G fiber ports and multigigabit (1/2.5/5/10Gbps) Ethernet ports via additional expansion module		
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Must have 8GB DRAM or higher		
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<p>maintenance tasks like troubleshooting, real-time debugging without impact on the production</p> <p>Capable of supporting software patch fixes during operation that can take effect without reloading the system to minimize traffic impact</p> <p>Must have highly resilient architecture for stacked deployment that allows stateful switch over with sub-50-ms failover</p> <p>The proposed switch must be built to support intent-based networking and must be fully programmable for future proofing.</p> <p>Must support open APIs over NETCONF and RESTCONF using YANG data models</p> <p>Must support on-box Python scripting</p> <p>Capable of supporting external USB 3.0 SSD pluggable storage with up to 120GB capacity for container-based application hosting and supports setting of password on the drive for protection against unauthorized access</p> <p>Must have support for IEEE 802.1ae MACsec with AES-128 bit encryption</p> <p>Can support IEEE 802.1x, IEEE 1588v2 and IEEE 802.1ba Must have capability of providing assurance that switch both hardware and software are authentic and unmodified before or during bootup for protection against counterfeit hardware and software modification and must have corresponding public reference or whitepaper to support this</p> <p>Must have digitally signed software to protect against insertion of counterfeit and tampered software</p>		
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- 4. Service availability 24 hours a day, Mondays thru Sundays, inclusive of Holidays**
- 5. 1 Year warranty**

Delivery Duration/ Term: 10 calendar days

Total amount in words:

The above-quoted prices are inclusive of all costs and applicable taxes.

Very truly yours,

Name/ Signature of Representative

Name of Company

Mayor's Permit No. _____

PhilGEPS Registration No. _____

(Please submit the photocopies of the above documents upon submission of quotation)

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