



27<sup>th</sup> February, 2015

**Published Call for Quotations – QMFA 019/2015**

**CLOSING DATE: Friday 20<sup>th</sup> March, 2015 at 10:00 hours**

***NOTE: It is within your Interest to READ the whole of this document  
When submitting offers by email,  
please include the above QMFA reference and Name of Call in the subject field.***

The Ministry for Foreign Affairs needs the following item/s:

**Supply and Delivery of Energy Efficient Switches  
for the Ministry for Foreign Affairs**

**Section A: Instructions to Tenderers:**

1. The Ministry for Foreign Affairs (MFA) requires the supply and delivery of six (6) energy efficient switches. The switches are required to be of the type **HP Procurve Switch 2510G** in order to be compatible with the current system.
2. The selected bidder is required to supply the items from stock and hence must be delivered not be more than two (2) weeks from date of issuance of Letter of Acceptance by MFA.
3. All products carrying the ENERGY STAR label will be deemed to comply. Any other appropriate means of proof, such as a technical dossier of the manufacturer or a test report from a recognised body demonstrating that the criteria are met will also be accepted. Interested bidders should enclose the Technical Data sheet with the offer.
4. Goods are to be delivered at:  
Information Management Unit,  
Ministry for Foreign Affairs  
172, Melita Street,  
Valletta
5. The suggested specifications **should be compliant** with the following technical specifications:

**1.1 Layer 2 Access Switch**

<b>1.2.1 Access Switch – (Layer 2 – of the OSI reference model)</b>	
<b>Ref 'n'</b>	<b>Physical Characteristics</b>
	1 Rack Unit height.
	Supplied with Telco type brackets for 19-inch Telco type racks.
	Mounts in EIA Standard 19-inch Telco type racks.
	Internal Power Supply Unit – (200-240 Voltage – Alternative Current) complete with (UK AC-IEC – C13 10-13 AMP) AC Power cable.
<b>Architecture &amp; Performance:</b>	
	Supports Stacking architecture with single IP address for management.
	Throughput: 35 million packets per second ( <i>Minimum</i> ).

	<b>Note:</b> As part of the response, bidders are to specify the throughput of the specified switch.
	Switching fabric performance - 48 Gbps ( <i>Minimum</i> ). <b>Note:</b> As part of the response, bidders are to specify the switching fabric performance of the Flash Memory of the specified switch.
	MAC Address table size - 8,000 entries ( <i>Minimum</i> ). <b>Note:</b> As part of the response, bidders are to specify the size of the MAC Address table of the specified switch.
	Minimum support of 64 VLANS <b>Note:</b> As part of the response, bidders are to specify the maximum number of VLANS
<b>Ports Density &amp; Memory:</b>	
	Minimum 20 Auto-Negotiation, Auto-MDIX, RJ45 10/100/1000 ports compliant with IEEE 802.3 (10Base-T), IEEE 802.3u (100Base-TX) and with IEEE 802.3ab (1000Base-T) standards. <b>Note:</b> The specified ports must not from part of a combo ports group.
	4 Auto-Negotiation Auto-MDIX, RJ-45 10/100/1000 ports compliant with IEEE 802.3 (10Base-T), 802.3u (100Base-TX), and with 802.3ab (1000Base-T) standards. <b>Note:</b> Ports can also form part of a combo ports group.
	4 SFP – Mini-GBIC open slots for optical 1000Base-SX or 1000Base-LX Gigabit or 1000Base-LH Gigabit Fibre Ports. <b>Note:</b> Ports can also form part of a combo ports group.
	1 RS-232C DB-9 and/or 1 RJ-45 Management Console Port for out-of-band management.
	No Redundant Power Supply (RPS) Port required
	Flash Memory - 16MB ( <i>Minimum</i> ). <b>Note:</b> As part of the response, bidders are to specify the memory size of the Flash Memory of the specified switch.
	SDRAM - 64MB ( <i>Minimum</i> ). <b>Note:</b> As part of the response, bidders are to specify the memory size of the SDRAM of the specified switch.
<b>Management / Monitoring:</b>	
	Management through Command Line Interface (CLI) and Hyper Text Transfer Protocol (HTTP) Web browser GUI Interface.
	RFC-1573 - Simple Network Management Protocol (SNMP) version 2.
	RFC-792 Internet Control Management Protocol (ICMP).
	RFC-3376 Internet Group Management Protocol (IGMP) Version 3.
	RFC-783 – Trivial File Transfer Protocol (TFTP).
	RFC-951/RFC-1542 IP/UDP Bootstrap Protocols (BOOTP).
	Troubleshooting protocol such as Link Layer Discovery Protocol (LLDP) or equivalent to test

	<p>and discover Layer 2 point-to-point connectivity. This protocol periodically must check connectivity and shall send update messages. The message must include details such as, (device name, device capabilities, device software version, and device IP address).</p> <p><b>Note:</b> As part of the response, bidders are to specify the protocol and it's version number</p>
	RFC-2030 Simple Network Time Protocol (SNTP) Version 4.
	RFC-854 Telnet Protocol.
	HTML Management Interface.
	<p>Device must be fully compatible and fully controllable through one of the following already installed management tools</p> <p>Cisco works LMS Ver4.0 or HP Procurve Manager Ver3.10</p> <p>Suppliers may also specify an alternative management application tool, should this provide the following minimum features :-</p> <ul style="list-style-type: none"> <li>• Mass configuration deployments,</li> <li>• Automatic device configuration backup,</li> <li>• Mass operating system upgrades,</li> <li>• Secure web access management interface,</li> <li>• Support SNMP V2,V2c &amp; V3,</li> <li>• Manage devices through encrypted protocols such as SSH and HTTPS.</li> </ul> <p>Preferably these tools should also provide :-</p> <ul style="list-style-type: none"> <li>• Configuration change audit.</li> </ul> <p>The cost of the alternative management application tool should be quoted separately. The additional quotation should be annexed with the submission and should indicate the cost of all necessary licences to install the software in a virtual environment. The supplier should also quote the installation/configuration of the new management application and the cost of training required to support the equipment.</p>
<b>MIB support:</b>	
	RFC-2618 Authentication Dial-In User Service (RADIUS) Client (MIB).
	RFC-2674 Managed Objects for Bridges with Traffic Classes, Multicast Filtering and Virtual LAN Extensions.
	RFC-1493 Managed Object for Bridges (MIB).
	RFC-2863 Interfaces Group (MIB).
	RFC-1213 Management Information Base for TCP/IP Network Management (MIB II).
	RFC-2737 Entity (MIB) Version 2.
	RFC-2665 Managed Object for Ethernet-like Interface type (MIB).
	RFC-2819 Remote Network Monitoring Management Information Base.
	RFC-2613 Remote Network Monitoring MIB Extensions for Switched Networks (MIB).
	RFC-2668 Managed Objects for IEEE 802.3 Medium Attachment Units (MAUs).

	RFC-2021 Remote Network Monitoring Management Information Base Version 2 using SMIv2.
<b>Security:</b>	
	RFC-1492 Access Controller Access Control Systems Plus (TACACS+).
	Secure Shell (SSHv1, SSHv2) Protocols.
	Secure Sockets Layer (SSL).
	IEEE 802.1x Port-Based Access Authentication standard.
	IEEE 802.1x with Guest Vlan.
<b>Other Protocols &amp; Standards:</b>	
	IEEE 802.3x Flow Control protocol.
	IEEE 802.3ab 1000Base-TX.
	IEEE 802.3z 1000Base-X.
	IEEE 802.1d Spanning Tree Protocol (STP).
	IEEE 802.1w Rapid Convergence Spanning Tree Protocol (RSTP).
	IEEE 802.1s Multiple Spanning Tree Protocol (MSTP).
	IEEE 802.1ad Link Aggregation Control Protocol (LACP).
	IEEE 802.1q VLANs Support.
	IEEE 802.1q VLAN Tagging.
	IEEE 802.1q Vlan Registration Protocol (GVRP).
	IEEE 802.1p Layer 2 Quality of Service / Class of Service (QoS/CoS) Protocol for Traffic Prioritization.

**Section B: Offer****Part I - Technical offer****1.2 Layer 2 Access Switch**

1.2.1 Access Switch – (Layer 2 – of the OSI reference model)		
Details		
	Quantity	Qty (Type Quantity)
	Brand	
	Model	
	Delivery (number of weeks)	
	Warranty (number of years)	
		<b>Compliance</b>
Ref 'n'	Physical Characteristics	Circle your submission
	1 Rack Unit height.	YES / NO
	Supplied with Telco type brackets for 19-inch Telco type racks.	YES / NO
	Mounts in EIA Standard 19-inch Telco type racks.	YES / NO
	Internal Power Supply Unit – (200-240 Voltage – Alternative Current) complete with (UK AC-IEC – C13 10-13 AMP) AC Power cable.	YES / NO
<b>Architecture &amp; Performance:</b>		
	Supports Stacking architecture with single IP address for management.	YES / NO
	Throughput: 35 million packets per second ( <i>Minimum</i> ).  <b>Note:</b> As part of the response, bidders are to specify the throughput of the specified switch.	YES / NO
	Switching fabric performance - 48 Gbps ( <i>Minimum</i> ).  <b>Note:</b> As part of the response, bidders are to specify the switching fabric performance of the Flash Memory of the specified switch.	YES / NO
	MAC Address table size - 8,000 entries ( <i>Minimum</i> ).	YES / NO

	<b>Note:</b> As part of the response, bidders are to specify the size of the MAC Address table of the specified switch.	
	Minimum support of 64 VLANS <b>Note:</b> As part of the response, bidders are to specify the maximum number of VLANS	YES / NO
<b>Ports Density &amp; Memory:</b>		
	Minimum 20 Auto-Negotiation, Auto-MDIX, RJ45 10/100/1000 ports compliant with IEEE 802.3 (10Base-T), IEEE 802.3u (100Base-TX) and with IEEE 802.3ab (1000Base-T) standards. <b>Note:</b> The specified ports must not form part of a combo ports group.	YES / NO
	4 Auto-Negotiation Auto-MDIX, RJ-45 10/100/1000 ports compliant with IEEE 802.3 (10Base-T), 802.3u (100Base-TX), and with 802.3ab (1000Base-T) standards. <b>Note:</b> Ports can also form part of a combo ports group.	YES / NO
	4 SFP – Mini-GBIC open slots for optical 1000Base-SX or 1000Base-LX Gigabit or 1000Base-LH Gigabit Fibre Ports. <b>Note:</b> Ports can also form part of a combo ports group.	YES / NO
	1 RS-232C DB-9 and/or 1 RJ-45 Management Console Port for out-of-band management.	YES / NO
	No Redundant Power Supply (RPS) Port required	YES / NO
	Flash Memory - 16MB (Minimum). <b>Note:</b> As part of the response, bidders are to specify the memory size of the Flash Memory of the specified switch.	YES / NO
	SDRAM - 64MB (Minimum). <b>Note:</b> As part of the response, bidders are to specify the memory size of the SDRAM of the specified switch.	YES / NO
<b>Management / Monitoring:</b>		
	Management through Command Line Interface (CLI) and Hyper Text Transfer Protocol (HTTP) Web browser GUI Interface.	YES / NO
	RFC-1573 - Simple Network Management Protocol (SNMP) version 2.	YES / NO
	RFC-792 Internet Control Management Protocol (ICMP).	YES / NO
	RFC-3376 Internet Group Management Protocol (IGMP) Version 3.	YES / NO
	RFC-783 – Trivial File Transfer Protocol (TFTP).	YES / NO
	RFC-951/RFC-1542 IP/UDP Bootstrap Protocols (BOOTP).	YES / NO
	Troubleshooting protocol such as Link Layer Discovery Protocol (LLDP) or equivalent to test and discover Layer 2 point-to-point	YES / NO

	connectivity. This protocol periodically must check connectivity and shall send update messages. The message must include details such as, (device name, device capabilities, device software version, and device IP address).  <b>Note:</b> As part of the response, bidders are to specify the protocol and it's version number	
	RFC-2030 Simple Network Time Protocol (SNTP) Version 4.	YES / NO
	RFC-854 Telnet Protocol.	YES / NO
	HTML Management Interface.	YES / NO
	<p>Device must be fully compatible and fully controllable through one of the following already installed management tools</p> <p>Cisco works LMS Ver4.0 or HP Procurve Manager Ver3.10</p> <p>Suppliers may also specify an alternative management application tool, should this provide the following minimum features :-</p> <ul style="list-style-type: none"> <li>• Mass configuration deployments,</li> <li>• Automatic device configuration backup,</li> <li>• Mass operating system upgrades,</li> <li>• Secure web access management interface,</li> <li>• Support SNMP V2,V2c &amp; V3,</li> <li>• Manage devices through encrypted protocols such as SSH and HTTPS.</li> </ul> <p>Preferably these tools should also provide :-</p> <ul style="list-style-type: none"> <li>• Configuration change audit.</li> </ul> <p>The cost of the alternative management application tool should be quoted separately. The additional quotation should be annexed with the submission and should indicate the cost of all necessary licences to install the software in a virtual environment. The supplier should also quote the installation/configuration of the new management application and the cost of training required to support the equipment.</p>	YES / NO
<b>MIB support:</b>		
	RFC-2618 Authentication Dial-In User Service (RADIUS) Client (MIB).	YES / NO
	RFC-2674 Managed Objects for Bridges with Traffic Classes, Multicast Filtering and Virtual LAN Extensions.	YES / NO
	RFC-1493 Managed Object for Bridges (MIB).	YES / NO
	RFC-2863 Interfaces Group (MIB).	YES / NO
	RFC-1213 Management Information Base for TCP/IP Network Management (MIB II).	YES / NO



	RFC-2737 Entity (MIB) Version 2.	YES / NO
	RFC-2665 Managed Object for Ethernet-like Interface type (MIB).	YES / NO
	RFC-2819 Remote Network Monitoring Management Information Base.	YES / NO
	RFC-2613 Remote Network Monitoring MIB Extensions for Switched Networks (MIB).	YES / NO
	RFC-2668 Managed Objects for IEEE 802.3 Medium Attachment Units (MAUs).	YES / NO
	RFC-2021 Remote Network Monitoring Management Information Base Version 2 using SMIv2.	YES / NO
<b>Security:</b>		
	RFC-1492 Access Controller Access Control Systems Plus (TACACS+).	YES / NO
	Secure Shell (SSHv1, SSHv2) Protocols.	YES / NO
	Secure Sockets Layer (SSL).	YES / NO
	IEEE 802.1x Port-Based Access Authentication standard.	YES / NO
	IEEE 802.1x with Guest Vlan.	YES / NO
<b>Other Protocols &amp; Standards:</b>		
	IEEE 802.3x Flow Control protocol.	YES / NO
	IEEE 802.3ab 1000Base-TX.	YES / NO
	IEEE 802.3z 1000Base-X.	YES / NO
	IEEE 802.1d Spanning Tree Protocol (STP).	YES / NO
	IEEE 802.1w Rapid Convergence Spanning Tree Protocol (RSTP).	YES / NO
	IEEE 802.1s Multiple Spanning Tree Protocol (MSTP).	YES / NO
	IEEE 802.1ad Link Aggregation Control Protocol (LACP).	YES / NO
	IEEE 802.1q VLANs Support.	YES / NO
	IEEE 802.1q VLAN Tagging.	YES / NO
	IEEE 802.1q Vlan Registration Protocol (GVRP).	YES / NO
	IEEE 802.1p Layer 2 Quality of Service / Class of Service (QoS/CoS) Protocol for Traffic Prioritization.	YES / NO

**Part II - Schedule of Prices**

Item	Description	Qty	Unit	Unit Price in € including delivery but <b>excluding</b> VAT*	Total Price in € including delivery but <b>excluding</b> VAT*
<b>1</b>	Supply and Delivery of Energy Efficient Switches for the Ministry for Foreign Affairs as per Instructions to Tenderers inclusive of the Technical Specifications above.	6	Each		
<b>Grand Total Price in € including Delivery but excluding VAT</b>					

Technical Data sheet is enclosed	
VAT Rate (amend if necessary)	18%

**Company Information:**

Full name of company	
Address of Company	
Full name of contact person	
Designation of contact person	
Contact Telephone / Mobile Number	
Email Address	
<b>VAT/ Registration number</b>	

### **Section C; Terms and Conditions**

1. You are kindly requested to submit your quote/s for the above item/s. All quotes should include the following information:
  - Full name of company,
  - Address of Company,
  - Full name and Designation of contact person,
  - Contact Telephone Number / Mobile Number,
  - Email Address,
  - VAT number,
  - Date.
2. Please note that quotes are to be submitted in Euro currency.
3. Soft copies of the Submission must be provided in Word, Excel, pdf formats. When links are provided for Technical Specifications, these should lead to the website and must not require the downloading of any programs, the creation of accounts or other functions. Other formats will NOT be considered.
4. Please note that ALL documents must include the Reference number together with the name of item being requested. In cases, where this information is not included, the Contracting Authority reserves the right NOT to consider your interest to participate.
5. Documents can be sent either through email or brought by hand, in which case they should be inserted in the Tender Box found at the Directorate Corporate Services, Ministry for Foreign Affairs, Level 4, 331, Allied House, St Paul Street, Valletta. Documents can be brought by hand from Monday to Friday between 8.00 am and 12.00 pm only. Offers received via E-mail will be inserted in a sealed envelope and posted in the respective box.
6. Quotes must be valid for a minimum of 90 days.
7. Quotes are to be submitted, without any commitment on behalf of the government.
8. **Delivery costs must be included in all received quotes.**
  - Prices are to include delivery costs. The Bidder is advised to contact Valletta Local Council to familiarise self with any charges, permits and any other obligations that are to be borne by the contractor to effect delivery. The Contracting Authority shall not

be charged with any other charges on delivery which were not reflected in the respective bid.

- If a crane or other machinery is to be used, reference is being made to this form which is to be filled in and submitted to the Local Council. For further information kindly contact local council on 21234141 or 21251397.

<http://www.snapadministration.com/snapdatafiles/files/CityOfValletta/633823159651745000.pdf>

9. The Government reserves the right to:

- impose Penalties if items are not delivered within the time stipulated in the quote submitted by the awarded tenderer, which must never exceed 2 weeks from date of order;
- purchase a quantity of items on behalf of the awarded tenderer if the awarded tenderer fails to deliver the items within the time stipulated in the quote submitted by the same tenderer, which must never exceed 2 weeks from date of order.

10. **Clarifications can be sought up to 6<sup>th</sup> March 2015. Clarifications are to be requested by sending an email to [procurement.mfa@gov.mt](mailto:procurement.mfa@gov.mt) . The Contracting Authority will issue any additional information by 13<sup>th</sup> March 2015.**

11. Tenderers must quote all components of the price inclusive of taxes/charges, and any discounts but exclusive of VAT on the appropriate Schedule of Rates provided in Section B above. It is of the utmost importance to stress that VAT shall be paid in accordance with the applicable VAT Regulations. No offers are accepted if are found not in accordance with or deviate from the original Schedule of Rates provided with this Call. The financial offer will be considered as the total financial cost to the Contracting Authority. Except as may otherwise be provided for in the contract, no payment will be made for items which have not been costed.

12. If the tenderer offers a discount, the discount must be absorbed in the rates of the Schedule of Prices (Section B). The prices for the contract, must include all of the works to be provided. The prices quoted are fixed and not subject to revision or escalation in costs.

13. Items offered that do not conform to specifications will not be considered.

14. Tender will be awarded to the cheapest specifications compliant offer.

15. Please note that it is entirely the Tenderer's responsibility to ascertain that the Request for Participation is received BEFORE the deadline for

submission. Thus, the government cannot be held responsible for Quotes/Request for Participation which are not recorded on the Schedule of Offers sheet after the opening session because these were received after the expiry of the above deadline.

16. All submissions should be sent either:
  - by email on [procurement.mfa@gov.mt](mailto:procurement.mfa@gov.mt) or
  - by handby 10:00am on **Friday 20<sup>th</sup> March, 2015**
  
17. ANY OFFERS SUBMITTED AFTER THIS DATE AND TIME WILL BE AUTOMATICALLY REJECTED.