



EUROPEAN UNION

Delegation of the European Union to Bosnia and Herzegovina

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CLARIFICATION No. 2 to the Tender Dossier

"Supply of IT equipment for four tax administrations in BiH"

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Question 1:

Item 1.1 - Switch type 1

It is required to offer switch with support for:

- Advanced QoS on ports and ACLs

Is it acceptable to offer switch that applies QoS policies such as setting priority level and rate limit to selected traffic on a per-port or per-VLAN basis?

Answer 1:

Please see Corrigendum no.4 to the Tender Dossier, Point 1, a).

Question 2:

Item 1.1 - Switch type 1

It is required that offered switch support:

- Security: hardware based ACLs, ports and VLANs based ACLs, up to 3072 rules, time-based ACL list, IP source guard

a) Please explain "hardware based ACL"? Is that MAC address ACL?

b) Please explain "up to 3072 rules"?

c) Do you mean total Access Control Entries (ACEs) or total Access Control Lists (ACLs).

Answer 2:

a) Hardware based ACL means that switch is doing drop or rate limiting of IP packets in hardware.

b) It should read "up to 2000 ACL entries". Please see Corrigendum no.4 to the Tender Dossier, Point 1, b).

c) Number of rules refers to total ACL entries. It covers ACEs and ACLs.

Question 3:

Item 1.1 - Switch type 1

It is required that offered switch support:

- "stack" connection between switch

Is it necessary to offer switch with dedicated stacking module or we can offer switch that have option to create stack between switches using 10G SFP+ modules?

Answer 3:

Please see Corrigendum no.4 to the Tender Dossier, Point 1, c).

Question 4:

Item 1.1 - Switch type 1

It is required that offered switch support:

- Memory: min 256MB flash and min. 512MB RAM

Is it acceptable to offer switch with 1 GB SD Card and 2 GB RAM?

Answer 4:

To ensure equal treatment of tenderers, the Contracting Authority cannot give a prior opinion on the acceptance of offered item. Please note that each offered item has to comply with minimum requirements.

Question 5:

Item 1.2 – Layer 3 Switch

It is required

- switch stacking support for power

This feature is specific for just one vendor and only Cisco switches can fulfill all requirements because of this specific detail in specification. Please remove this request from the specification in order to increase the competitiveness for more leading manufacturer's network equipment.

Answer 5:

The requirements "•switch stacking support for power" is removed from the Technical specifications. Please see Corrigendum no.4 to the Tender Dossier, Point 2.

Question 6:

Item 1.2 - Layer3 Switch

We noticed that change was made although not clarification or modification request were submitted.

You changed

- forwarding rate -Min.60 Mpps to
- forwarding rate - Min. 90 Mpps

Because of this change, a much more expensive model of switch has to be offered. Please consider to change forwarding rate back to min. 60 Mpps.

Answer 6:

There are few models on the market which are not more expensive than in the previous case, new hardware is released from some vendors with more flash, RAM, throughput etc. The requirement stated in the Technical specifications for Item 1.2 related to forwarding rate remains unchanged.

Question 7:

Item 1.3 - Router type 1

It is required to offer router with:

- Optical transceiver module 10Gb/s SFP+ **20km** on single mode optical fiber, 2 pcs.

Is it possible to offer router with:

- Optical transceiver module 10Gb/s SFP+ **10km** on single mode optical fiber, 2 pcs.

Answer 7:

To ensure equal treatment of tenderers, the Contracting Authority cannot give a prior opinion on the acceptance of offered item. Please note that each offered item has to comply with minimum requirements.

Question 8:

Item 1.3 - Router type 1

It is required to offer router with:

- Pair proper optical transceiver modules 1 Gb/s SFP 20km on one single mode

Please clarify is it necessary to offer 2 pcs. of optical transceiver modules 1 Gb/s SFP 20km on one single mode?

Answer 8:

It is required to offer a router with "Pair of proper optical transceiver modules 1Gb/s SFP, 20km on one single mode optical fiber (optical duplex), 1 pair (2 pcs)". Please see Corrigendum no.4 to the Tender Dossier, Point 3, a).

Question 9:**Item 1.3 - Router type 1**

It is required to offer router with:

- optical fiber (optical duplex), 1 pair/ Optical transceiver module 1Gb/s SFP up to 500m on multimode optical fiber, 2 pcs.

Please clarify how many optical transceiver module 1Gb/s SFP up to 500m on multimode optical fiber we need to offer?

Answer 9:

It is required to offer a router with "Optical transceiver module 1Gb/s SFP up to 500m on multimode optical fiber, 2 pcs". Please see Corrigendum no.4 to the Tender Dossier, Point 3, b).

Question 10:**Item 1.3 - Router type 1**

Please clarify the request

- Software for configuration router with Web interface

Answer 10:

It means that firewall can be configured through WEB interface: WEB interface configuration supported.

Question 11:**Item 1.4 - Firewall type 1**

It is required to offer firewall with "Threat Protection throughput: 3 Gbps or more"

It is well known that Threat Prevention throughput includes IPS, Application Control and Malware/Antivirus services and for those services it is necessary to buy subscription. Please clarify is it necessary to offer appropriate subscription for Threat Prevention for one year or we can offer firewall without this subscription?

Answer 11:

It is necessary to offer appropriate subscription for Threat Prevention for a period of 1 year. Please see Corrigendum no.4 to the Tender Dossier, Point 4.

Question 12:**Item 1.4 - Firewall type 1**

It is required to offer firewall that supports:

- Maximum IPsec VPN tunnels L2L: 2000 (Gateway to Gateway IPSEC tunnels) or more
- Maximum IPsec VPN tunnels: 2000 (Client to Gateway IPSEC tunnels) or more
- IPsec VPN throughput: 3Gbps or more

Today, most of leading firewall vendors in technical specification for firewalls defines only IPsec VPN throughput, because number of IPsec VPN tunnels (Gateway to Gateway or Client to Gateway) only depends from throughput, so please remove

- Maximum IPsec VPN tunnels L2L: 2000 (Gateway to Gateway IPSEC tunnels) or more
- Maximum IPsec VPN tunnels: 2000 (Client to Gateway IPSEC tunnels) or more

from specification.

Answer 12:

According to our knowledge this specification is usually published as a maximum number of site-to-site VPN tunnels and maximum number of remote access VPN tunnels. L2L VPN tunnel is the same as site-to-site VPN tunnel. Client to gateway VPN tunnel is the same as remote access VPN tunnel.

The requirements stated in the Technical specifications for Item 1.4 related to *Maximum IPsec VPN tunnels L2L* and *Maximum IPsec VPN tunnels* remain unchanged.

Question 13:

Item 1.4 - Firewall type 1

It is required that offered firewall have:

“Software for router configuration with Web interface”

Please remove this request from specification because this is specification for firewall and you specified that offered firewall must have “Software for **router** configuration with Web interface”. Also, if you made typographical error in this request and you expect that offered firewall should have “Software for firewall configuration with Web interface”, please consider that most of leading firewall vendors use web browser (Chrome, Firefox, IE, Safari, etc.) or free software that could be installed on Windows or Linux OS for configuration purpose. So, from this point of view, we also expect that you remove this request from specification.

Answer 13:

The requirement means that firewall can be configured through WEB interface: WEB interface configuration supported. The requirements stated in the Technical specifications for Item 1.4 related to *Software for router configuration with Web interface* remain unchanged.

Question 14:

Item 1.5 - Firewall type 2

It is required to offer firewall with

“NGFW (IPS + Application control) throughput: 145 Mbps or more”

It is well known that NGFW throughput includes IPS and Application services and for those services it is necessary to buy subscription. Please clarify is it necessary to offer appropriate subscription for IPS and Application Control for one year or we can offer firewall without this subscription?

Answer 14:

It is required to offer appropriate NGFW subscription for 1 year period. Please see Corrigendum no.4 to the Tender Dossier, Point 5.

Question 15:

Item 1.5 - Firewall type 2

It is required to offer firewall that supports:

- IPSec VPN throughput: min. 95 Mbps or more
- IPSec VPN tunnels L2L: 95 or more

Today, most of leading firewall vendors in technical specification for firewalls defines only IPSec VPN throughput, because number of IPSec VPN tunnels (Gateway to Gateway or Client to Gateway) only depends from throughput, so please remove

- IPSec VPN tunnels L2L: 95 or more
- from specification.

Answer 15:

According to our knowledge this specification is usually published as a maximum number of site-to-site VPN tunnels. L2L VPN tunnel is the same as site-to-site VPN tunnel. The requirements stated in the Technical specifications for Item 1.5 related to *IPSec VPN tunnels L2L* remain unchanged.

Question 16:

Item 1.5 - Firewall type 2

It is required to offer firewall that support:

- Unlimited users/IP license

Please remove this request from specification because you cannot expect that firewall with 480 Mbps throughput support **Unlimited users and IP license**.

Answer 16:

The firewall should not have limitation of number of users and IPs connecting through firewall based on license.

Question 17:

Item 1.6 Blade server type 1

It is required to offer blade server supporting:

“minimum 2 x PCI-Express 3.0 x **minimum** 8 slots for additional PCIe cards”

The sentence has misleading formulation that minimum 8 slots are required. All vendors of blade servers are supporting maximum 2 mezzanine slots because of limited physical space.

Please revise the sentence of this requirement to be able to offer blade servers of any vendor?

For example: “minimum 2 x PCI-Express 3.0 x8 slots for additional PCIe cards”

Answer 17:

The word ‘minimum’ is deleted from text "*minimum 8 slots*". Please see Corrigendum no.4 to the Tender Dossier, Point 6.

Question 18:

Item 1.7 Rack mount server

It is required to offer rack mount server with:

“Support for NVDIMM capacity 384GB or better”

NVDIMM (Non Volatile DIMM) memory modules present new memory technology that is not widely implemented by server vendors, especially not at such high capacity. Only one vendor and server model can meet the requested specification.

Please remove this request or lower the requested NVDIMM capacity to 192GB to ensure competitiveness for more server vendors and models.

Answer 18:

The NVDIMM capacity requirement is lowered to 192GB. Please see Corrigendum no.4 to the Tender Dossier, Point 7.

Question 19:

Item 1.10 Chassis for blade server type 1

It is required to offer “Minimum 2x16 Gbps FC switch with minimum 24 ports”

Please clarify how many 16Gb SFP+ external transceivers are required per FC switch?

Answer 19:

All ports must be populated with specified SFP+ modules.

Question 20:

Item 1.11 Chassis for blade server type 2

It is required to offer:

“1 network switch with min 24 1/10Gbit (1/10Gbps) with support for both LAN and SAN connections. The switch must have minimum 14 downlink ports. Support for FCoE and iSCSi protocols. 2x 10 Gbps internal/external cross connects for redundancy and stacking. VLAN Tagging, **Pass-Thru** and Link Aggregation supported on all uplinks”

Please clarify what functionality is required by Pass-Thru support?

Is this function the possibility to pass traffic through a configured Access Control List and assign that Access Control List to a physical interface or a VLAN?

Answer 20:

Since the switch has dual capability (both LAN and SAN) this functionality is relative to the SAN capabilities of the switch. The pass-through support means that the switch is capable to act as a pass-through device capable of physical port aggregation in SAN environment which reduces cabling requirements.

Question 21:

Item 1.13 Storage type 2

It is required to offer storage with “Height: max. 2RU”

Please consider to change the maximum height of storage to min. 3RU to ensure better competitiveness for more storage vendors and models.

Answer 21:

The requirement is changed to maximum 3RU. Please see Corrigendum no.4 to the Tender Dossier, Point 8.

Question 22:

Item 1.1 - Switch type 1

- a) Please clarify the request:
 - Advanced QoS on ports and ACLs
- b) Please clarify **“up to 3072 rules”** in request:
 - Security: hardware based ACLs, ports and VLANs based ACLs, **up to 3072 rules**, time-based ACL list, IP source guard
- c) It is specified that offered switch support:
 - "stack" connection between switch

Is it acceptable to offer switch with support for VSS (virtual switching system)? This means that you can use 10G interface for connection between two switches and you will have same functionality which you have if you are using switch with dedicated stack module?

Answer 22:

- a) ACLs on ports mean that switch basically supports IP based access control lists. Please see Answer no.1 of this clarification.
- b) Please see Answer no.2 b) of this clarification.
- c) Please see Answer no.3 of this clarification.

Question 23:

Item 1.2 – Layer 3 Switch

It is specified that offered switch support:

- switch stacking support for power

Please remove this request, because only Cisco switches have support for power stacking.

Answer 23:

Please see Answer no. 5 of this clarification.

Question 24:

Item 1.4 Firewall type 1

a) It is specified that offered firewall must support:

- Maximum IPsec VPN tunnels L2L: 2000 (Gateway to Gateway IPSEC tunnels) or more
- Maximum IPsec VPN tunnels: 2000 (Client to Gateway IPSEC tunnels) or more

Leading firewall vendors don't have this info in firewall data sheet. Please clarify is it acceptable to provide an official vendor statement verifying that the offered device meets the requested technical specification?

b) Is it necessary to include appropriate subscription for Threat Protection (IPS, Application Control and Malware protection) for one year in the offer or we can offer firewall without this subscription?

Answer 24:

- a) Please see Answer no. 12 of this clarification.
- b) Please see Answer no. 11 of this clarification.

Question 25:**Item 1.5 Firewall type 2**

a) It is specified that offered firewall must support:

- Maximum IPsec VPN tunnels L2L: 2000 (Gateway to Gateway IPSEC tunnels) or more
- Maximum IPsec VPN tunnels: 2000 (Client to Gateway IPSEC tunnels) or more

Leading firewall vendors don't have this info in firewall data sheet. Please clarify is it acceptable to provide an official vendor statement verifying that the offered device meets the requested technical specification?

b) Is it necessary to include appropriate subscription for IPS and Application Control for one year in the offer or we can offer firewall without this subscription?

Answer 25:

a) Please see Answer no. 15 of this clarification.

b) Please see Answer no. 14 of this clarification.

Question 26:**Item 1.13 Storage type 2**

There are storage models that fully respond to provided technical requirements except for rack unit height. Please allow to offer storage with more than 2RU for improved competitiveness.

Answer 26:

Please see Answer no. 21 of this clarification.

Question 27:

In document „A. Instructions to tenderers“, point 4. ORIGIN it is said that:

“All goods purchased under the contract must originate in one or more of these countries: Member states of the European Union and beneficiary countries of IPA II programme as defined under the Regulation (EU) N°236/2014.

For these purposes, ‘origin’ means the place where the goods are mined, grown, produced or manufactured and/or from which services are provided. The origin of the goods must be determined according to the EU Customs Code or to the relevant international agreement applicable.

Tenderers must provide an undertaking signed by their representative certifying compliance with this requirement. For more details, see point 2.3.1 Practical Guide.”

Our questions are:

- Is Republic of China beneficiary country of IPA II programme as defined under the Regulation (EU) N°236/2014?
- Could you send us which countries are beneficiary country of IPA II programme as defined under the Regulation (EU) N°236/2014?

Answer 27:

Republic of China is not beneficiary country of IPA II programme. The list of the beneficiary countries under IPA II programme is available at the following link:

<http://ec.europa.eu/europeaid/prag/annexes.do?chapterTitleCode=A;>

next step: open A2a Eligibility programmes 2007-2013 (please see appendix 1, appendix 2 and appendix 3)