

Clarification No: 1
to the
TENDER DOSSIER

Publication reference: EuropeAid/140079/DH/SUP/BA

Tender no.: EC/BiH/TEN/18/040

Subject: Supply of Establishment of video surveillance system at international border crossings in Bosnia and Herzegovina

Location: Bosnia and Herzegovina

Question 1:

In the Instructions to tenderers, under Point 11., Part 2. Financial offer, it is stated that "The technical offer should be presented as per template (Annex II+III*, Contractor's technical offer) adding separate sheets for details if necessary." Is this note correct or should it state "financial offer" (with reference to Annex IV) instead of "technical offer"?

Answer 1:

Please see [Corrigendum no. 1 to tender dossier](#)

Question 2:

With reference to the Selection criteria, in the Supply Contract Notice, under point 16, it is stated that "In the case of tenders submitted by a consortium, these selection criteria will be applied to the consortium as a whole unless specified otherwise.", and in Instructions to tenderers, under point 18.2. it is stated that "Each member of such joint venture or consortium must provide the proof required under Article 3.5 as if it, itself, were the tenderer." Could you please clarify whether each selection criterion (economic and financial, professional and technical) must be met by each member of a consortium separately, including at least 1 contract with a budget of at least the value of its financial offer in field related to this contract?

Answer 2:

Each selection criterion as specified under Point 16 of the Contract Notice must be met by tenderer. In case of a consortium, it must be met by a consortium as a whole. When it comes to the technical capacity requirement, at least one of consortium member must fulfil the requirement.

Question 3:

With reference to the language of the supporting documents (eg. statements, court register excerpts, brochures etc), does the translation into English have to be verified (eg. by court interpreter)?

Answer 3:

Certified translation is not required.

Question 4:

Do the tenderers ie. companies submitting this tender have to be authorised (by the relevant authorities in BiH) to perform activities of technical protection in the area of Bosnia and Herzegovina?

Answer 4:

Authorization by the relevant authorities in BiH for performing activities on technical protection systems is not required.

Question 5:

According to the "SELECTION AND AWARD CRITERIA" section, article 16, paragraph 3, page 4/7, please clarify if it is allowed by the Call for Tender, the bidder to use the experience of a 3rd party ("Loan Experience") from a 3rd party which does not participate in the joint venture), in order for the bidder to meet the technical and professional capacity requirements.

Answer 5:

The tenderer is allowed to propose Capacity-providing entities, as long as conditions specified as stated Point 16 of the Contract Notice, section "*Capacity-providing entities*" are fully respected.

As detailed therein, please consider that "with regard to technical and professional criteria, a tenderer may only rely on the capacities of other entities where the latter will perform the tasks for which these capacities are required".

Question 6:

In case of positive answer in question 5, please confirm that the 3rd party's written commitment (binding declaration that in case of award the 3rd Party shall provide the said expertise, experience and the relevant means that will be available to the bidder throughout the duration of the Contract for implementing the said Project) is sufficient as evidence.

Answer 6

No, a written statement of the 3rd party, while requested to be produced, is not sufficient.

Please refer to the point 16. Selection criteria, section *Capacity-providing entities*:

"If the tender relies on other entities [...] Such entities [...] [...] must respect the **same rules of eligibility** and notably that of **nationality**, as the economic operator relying on them and **must comply with the selection criteria** for which the economic operator relies on them. Furthermore, **the data** for this third entity for the relevant selection criterion **should be included in the tender in a separate document**. Proof of the capacity will also have to be furnished when requested by the contracting authority."

Question 7:

In the technical specification it is mentioned that it is required to have compression standards H.264 and H.265. Will it be acceptable to quote a solution which is equal or better than H.265 compression standard but based on compression standard H.264?

Answer 7:

No, it is mandatory that offered solution have support for H.264 and H.265 compression standards.

Question 8:

For **items 1.1.21** - IP compact bullet camera with integrated IR light (313 pcs), **1.1.22** - surface mount indoor IP dome camera with integrated IR light (255 pcs) and **1.1.24** - PTZ pan/tilt/zoom camera with integrated IR light (35 pcs) you have requested following:

"- support for video analysis: object detection in the scene, line crossing, enter/leave area, object in area more time than allowed, object moving within predefined route, detection of removed and abandoned object, counting, crowd density estimation, sabotage detection, alarm generation if detected object is similar like previously marked object"

Question: Since video analysis methods are requested as an option for cameras, is it OK that offered model has to comply with all of these video analytics requests and to be available as a supported function in a video analytic software?

Additionally, regarding option *"alarm generation if detected object is similar like previously marked object"*, can you please explain what do you exactly mean by this request?

Answer 8:

Video analysis is mandatory camera function and all requested features must be offered. *"Alarm generation if detected object is similar like previously marked object"*, means that objects which are similar to a certain object are detected this way.

Question 9:

For items **1.1.21** - IP compact bullet camera with integrated IR light (313 pcs), **1.1.22** - surface mount indoor IP dome camera with integrated IR light (255 pcs), **1.1.23** - surface mount vandal resistant outdoor IP dome or multisensor camera (15 pcs) and **1.1.24** - PTZ pan/tilt/zoom camera with integrated IR light (35 pcs) You have requested following: *"- image improvements: image optimization in foggy scenes"*.

Question: Does this request relates to camera having automatic defog function in real time or defogging options via adjusting camera parameters?

Answer 9:

Defog options should be supported via automatically adjusts parameters.

Question 10:

For items **1.1.21** - IP compact bullet camera with integrated IR light (313 pcs), **1.1.22** - surface mount indoor IP dome camera with integrated IR light (255 pcs) and **1.1.24** - PTZ pan/tilt/zoom camera with integrated IR light (35 pcs) you have requested following: *"- object search according to the following criteria: duration, size, proportion, speed, direction, color, four types of object classification"*.

Question: Does these object search methods relate directly to camera functions or to server/VMS?

Answer 10:

These defined criteria are related to camera video analytic functionality. An alarm event can be generated if objects match certain parameters.

Question 11:

For items **1.1.21** - IP compact bullet camera with integrated IR light (313 pcs), **1.1.22** - surface mount indoor IP dome camera with integrated IR light (255 pcs), **1.1.23** - surface mount vandal resistant outdoor IP dome or multisensor camera (15 pcs) and **1.1.37** - video encoder (2 pcs) you have requested compliance with EN 50121-4 standard. This standard refers to railway applications: "Railway applications - Electromagnetic compatibility - Part 4: Emission and immunity of the signalling and telecommunications apparatus". Keeping this in mind and the fact that you will install only 8 (eight) outdoor IP dome or multisensor cameras (part 7. Technical requirements, points: 7.1 Functional overview and description of the designed video surveillance system and 7.3 Technical solution of the system) at river and railway crossings we have following perplexities:

Question: How many cameras are needed for railway crossings? Will you accept that only those cameras comply with requested EN 50121-4 standard?

Answer 11:

No, all cameras must comply with EN 50121-4 standard.

Question 12:

For **items 1.1.21** - IP compact bullet camera with integrated IR light (313 pcs), **1.1.22** - surface mount indoor IP dome camera with integrated IR light (255 pcs), **1.1.23** - surface mount vandal resistant outdoor IP dome or multisensor camera (15 pcs) you have requested one set of standards for cameras to comply with and for items **1.1.24** - PTZ pan/tilt/zoom camera with integrated IR light (35 pcs) you have requested another set of standards.

Question: Can you please explain this incongruity?

Answer 12:

All offered cameras must comply with requested set of standards.

Question 13:

Item 1.1.9 - Supply, delivery and installation of server

- a) The specification for CPU is: "*Quad Core CPU with 8 cores and minimum Passmark 12000*"
Quad Core CPU with 8 cores is contradictory, please clarify the required CPU.

Answer 13a:

The requirement: "Quad Core CPU with 8 cores and minimum Passmark 12000" is deleted and now reads "**CPU with min. 10 cores and minimum Passmark 12000, possibility to upgrade with additional CPU**".

Please see [Corrigendum no.2 to tender dossier](#).

- b) The specification for power supply is: "*redundant power supply with maximum consumption 75W.*" Power supply values are usually defined as minimum necessary power that a single power supply unit must provide. In current statement, it is not clear if 500W or 1000W power supply units are acceptable. Please modify this statement to avoid ambiguity, for example: **Power:** "min. 750W, redundant, hot swap".

Answer 13 b:

The requirement: "redundant power supply with maximum consumption 750W" is deleted and now reads "**Power supply: min. 750W, redundant, hot swap**".

Please see [Corrigendum no.2 to tender dossier](#).

Question 14:

Item 1.1.13 - Supply, delivery and installation of storage system

- a) Please define SAN protocol and port type that should be offered: Fiber-channel, SAS, iSCSI?

Answer 14 a:

SAN protocol type is Fiber-Channel (FC). Required number of ports: min. 4x 16Gb FC ports. Possibility for FC direct attach to servers, without use of FC switch.

b) The specification for power supply is: "*hot swap redundant power supply maximum consumption 800W*". It is not clear if it is required to offer redundant power supplies with 800W each, or that the storage system must consume less than 800 Watt. Please clarify if storage system with power consumption less than 800W will be considered compliant?

Answer 14 b:

Yes, storage system with power consumption less than 800W will be considered compliant.

Question 15:

Item 1.1.14 - Supply, delivery and installation of NAS storage system

It is required to offer: “- *dual-core 1.6GHz*”. Please clarify if a CPU with more cores can be offered and provide minimum Passmark value?

Answer 15:

Yes, it is acceptable to offer NAS storage system with more CPU cores.

The requirement: "dual-core 1.6GHz" is deleted and now reads "**CPU: min. dual core CPU with min. clockspeed 1.6GHz**"

Please see [Corrigendum no.2 to tender dossier](#).

Question 16:

Item 1.1.15 - Supply, delivery and installation of workstation with preinstalled 64-bit operating system

It is required to offer: “*maximum consumption 250W*”. Considering the fact that most of the manufacturers don’t support this request, and to increase competitiveness, please consider changing the request to “maximum consumption 250 W +/-10%”.

Answer 16:

The requirement: "maximum consumption 250W" is deleted and now reads "**maximum consumption 260W**".

The requirement: "DVD-RW DL 16x recorder" is deleted and now reads "**DVD +/-RW 8x recorder**"

Please see [Corrigendum no.2 to tender dossier](#).

Question 17:

Item 1.1.16 - Supply, delivery and installation of workstation with preinstalled 64-bit operating system

It is required to offer: “*maximum consumption 250W*”. Considering the fact that most of the manufacturers don’t support this request, and to increase competitiveness, please consider changing the request to “maximum consumption 250 W +/-10%”.

Answer 17:

The requirement: "maximum consumption 250W" is deleted and now reads "**maximum consumption 260W**".

The requirement: "DVD-RW DL 16x recorder" is deleted and now reads "**DVD +/-RW 8x recorder**"

Please see [Corrigendum no. 2. to tender dossier](#).

Question 18:

Item 1.1.17 - Supply, delivery and installation of LCD monitor

It is required to offer: “*maximum consumption 40 W*”. Considering the fact that most of the manufacturers don’t support this request, and to increase competitiveness, please consider changing the request to “maximum consumption 40 W +/-15%”.

Answer 18:

The requirement: "maximum consumption 40W" is deleted and now reads "**maximum consumption 45W**".

Please see [Corrigendum no. 2](#) to tender dossier.

Question 19:

Item 1.1.18 - Supply, delivery and installation of LCD monitor

It is required to offer: “*VESA Mount: 400 x 400 mm, M6*”. Considering that there is a separate Item 1.1.20 which has to be compatible with requested LCD monitor (Item 1.1.18 and Item 1.1.19) please consider removing request for VESA Mount: 400 x 400 mm, M6 or change this request to common VESA Mount size: 200 x 200 or 400 x 200 or 400 x 400 or 600 x 400.

Answer 19:

The requirement: "VESA Mount: 400 x 400 mm, M6" is deleted and now reads "**Mount size: 200 x 200 or 400 x 200 or 400 x 400 or 600 x 400**".

Please see [Corrigendum no.2](#) to tender dossier.

Question 20:

Item 1.1.19 - Supply, delivery and installation of LCD monitor

It is required to offer: “*VESA Mount: 400 x 400 mm, M6*”. Considering that there is separate Item 1.1.20 which has to be compatible with requested LCD monitor (Item 1.1.18 and Item 1.1.19) please consider removing request for VESA Mount: 400 x 400 mm, M6 or change this request to common VESA Mount size: 200 x 200 or 400 x 200 or 400 x 400 or 600 x 400.

Answer 20:

The requirement: "VESA Mount: 400 x 400 mm, M6" is deleted and now reads "**Mount size: 200 x 200 or 400 x 200 or 400 x 400 or 600 x 400**".

Please see [Corrigendum no. 2.](#) to tender dossier

Question 21:

Item 1.1.21 - Supply, delivery and installation of IP compact bullet camera with integrated IR light

- a) It is requested that offered camera have support for “**Telnet**”. Telnet, by default, does not encrypt any data sent over the connection (including passwords), and so it is often feasible to eavesdrop on the communications and use the password later for malicious purposes; anybody who has access to a camera located on the network where Telnet is being used can intercept the packets passing by and obtain login, password and whatever else is typed with a packet analyzer. Most of the leading camera manufacturers does not support Telnet anymore because of the security reason. Please, consider removing this request from specification.

Answer 21a:

Yes, it is acceptable to offer camera without support for Telnet.

The requirement: "support for following network protocols: IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, Telnet, ARP, DHCP, NTP (SNTP), SNMP (V1, MIBII), 802.1x, DNS, DNSv6, SMTP, DiffServ (QoS), LLDP, SOAP, CHAP, digest authentication"

is deleted and now reads "**support for following network protocols: IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, ARP, DHCP, NTP (SNTP), SNMP (V1, MIBII), 802.1x, DNS, DNSv6, SMTP, DiffServ (QoS), LLDP, SOAP, CHAP, digest authentication**".

Please see Corrigendum no. 2 to tender dossier.

- b) It is requested that cameras have: "*Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module, ARM TrustZone, TI M-Shield or equivalent)*". Please change this request to: "Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module **or** ARM TrustZone **or** TI M-Shield or equivalent)".

Answer21b

The requirement: "Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module, ARM TrustZone, TI M-Shield or equivalent)" is deleted and now reads "**Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module or ARM TrustZone or TI M-Shield or equivalent)**"

Please see Corrigendum no.2 to tender dossier.

Question 22:

Item 1.1.22 - Supply, delivery and installation of surface mount indoor IP dome camera with integrated IR light

- a) It is requested that offered camera have support for "**Telnet**". Telnet, by default, does not encrypt any data sent over the connection (including passwords), and so it is often feasible to eavesdrop on the communications and use the password later for malicious purposes; anybody who has access to a camera located on the network where Telnet is being used can intercept the packets passing by and obtain login, password and whatever else is typed with a packet analyzer. Most of the leading camera manufacturers does not support Telnet anymore because of the security reason. Please, consider removing this request from specification.

Answer 22a:

Yes, it is acceptable to offer camera without support for telnet.

The requirement: "*support for following network protocols: IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, Telnet, ARP, DHCP, NTP (SNTP), SNMP (V1, MIBII), 802.1x, DNS, DNSv6, SMTP, DiffServ (QoS), LLDP, SOAP, CHAP, digest authentication*"

is deleted and now reads "**support for following network protocols: IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, ARP, DHCP, NTP (SNTP), SNMP (V1, MIBII), 802.1x, DNS, DNSv6, SMTP, DiffServ (QoS), LLDP, SOAP, CHAP, digest authentication**".

Please see Corrigendum no. 2. to tender dossier.

- b) It is requested that cameras have: “*Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module, ARM TrustZone, TI M-Shield or equivalent)*”. Please change this request to: “*Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module or ARM TrustZone or TI M-Shield or equivalent)*”.

Answer 22 b:

The requirement: "Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module, ARM TrustZone, TI M-Shield or equivalent)" is deleted and now reads "**Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module or ARM TrustZone or TI M-Shield or equivalent)**".

Please see Corrigendum no.2 to tender dossier.

- c) It is requested that camera have support for “*NEMA TS 2-2003 (R2008)*” standard, which is related to outdoor cameras. Please, consider removing this request from specification considering the fact that this specification refers to indoor IP dome camera.

Answer 22c

Yes, it is acceptable to offer indoor IP dome camera with integrated IR light without support for NEMA TS 2-2003 (R2008) and EN 60950-22 standard because this two standard are related to outdoor cameras.

The requirement: "standards: EN 50121-4, EN 60950-1, EN 60950-22, IEC 62471, EN 50130-4, EN 50130-5, EN 55024, temperature operation conditions according to the NEMA TS 2-2003 (R2008)" is deleted and now reads "**standards: EN 50121-4, EN 60950-1, IEC 62471, EN 50130-4, EN 50130-5, EN 55024**".

Please see Corrigendum no.2 to tender dossier.

Question 23:

Item 1.1.23 - Supply, delivery and installation of surface mount vandal resistant outdoor IP dome or multisensor camera

- a) It is requested that offered camera have support for “Telnet”. Telnet, by default, does not encrypt any data sent over the connection (including passwords), and so it is often feasible to eavesdrop on the communications and use the password later for malicious purposes; anybody who has access to a camera located on the network where Telnet is being used can intercept the packets passing by and obtain login, password and whatever else is typed with a packet analyzer. Most of the leading camera manufacturers does not support Telnet anymore because of the security reason. Please, consider removing this request from specification.

Answer 23a:

Yes, it is acceptable to offer camera without support for telnet.

The requirement: "support for following network protocols: IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, Telnet, ARP, DHCP, NTP (SNTP), SNMP (V1, MIBII), 802.1x, DNS, DNSv6, SMTP, DiffServ (QoS), LLDP, SOAP,CHAP,digest 5 authentication"

is deleted and now reads "**support for following network protocols: IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, ARP, DHCP, NTP (SNTP), SNMP (V1, MIBII), 802.1x, DNS, DNSv6, SMTP, DiffServ (QoS), LLDP, SOAP, CHAP, digest 5 authentication**".

Please see Corrigendum no. 2. to tender dossier.

- b) It is requested that cameras have: “*Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module, ARM TrustZone, TI M-Shield or equivalent)*”. Please change this request to: “Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module **or** ARM TrustZone **or** TI M-Shield or equivalent).”

Answer 23 b:

The requirement: "Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module, ARM TrustZone, TI M-Shield or equivalent)" is deleted and now reads "**Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module or ARM TrustZone or TI M-Shield or equivalent)**".

Please see [Corrigendum no.2 to tender dossier](#).

Question 24:

Item 1.1.24 - Supply, delivery and installation of PTZ pan/tilt/zoom camera with integrated IR light

- a) It is requested that offered camera have support for “**Telnet**”. Telnet, by default, does not encrypt any data sent over the connection (including passwords), and so it is often feasible to eavesdrop on the communications and use the password later for malicious purposes; anybody who has access to a camera located on the network where Telnet is being used can intercept the packets passing by and obtain login, password and whatever else is typed with a packet analyzer. Most of the leading camera manufacturers does not support Telnet anymore because of the security reason. Please, consider removing this request from specification.

Answer 24 a:

Yes, it is acceptable to offer camera without support for telnet.

The requirement: "support for following network protocols: IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, Telnet, ARP, DHCP, NTP (SNTP), SNMP (V1, MIBII), 802.1x, DNS, DNSv6, SMTP, DiffServ (QoS), LLDP, SOAP, CHAP, digest authentication"

is deleted and now reads "**support for following network protocols: IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, ARP, DHCP, NTP (SNTP), SNMP (V1, MIBII), 802.1x, DNS, DNSv6, SMTP, DiffServ (QoS), LLDP, SOAP, CHAP, digest authentication**".

Please see [Corrigendum no. 2. to tender dossier](#).

- b) It is requested that cameras have: “*Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module, ARM TrustZone, TI M-Shield or equivalent)*”. Please change this request to: “Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module **or** ARM TrustZone **or** TI M-Shield or equivalent).”

Answer 24 b:

The requirement: "Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module, ARM TrustZone, TI M-Shield or equivalent)" is deleted and now reads "**Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module or ARM TrustZone or TI M-Shield or equivalent)**".

Please see [Corrigendum no.2 to tender dossier](#).

- c) Standard EN 55024 defines the immunity test requirements for Information Technology Equipment (ITE) in relation to continuous and transient conducted and radiated disturbances. Tests within the standard include Electrostatic Discharges (ESD), Electrical Fast Transients (EFT), Surge, Power Frequency Magnetic Fields, Power interruptions, Radio Frequency Interference (RFI).

Please, confirm that it is acceptable to offer camera according to EN 55032 which is a specific EMC product standard covering EMC (Electromagnetic Compatibility) compliance testing of Multimedia Equipment (MME). EN 55032 applies to multimedia equipment (MME) having a rated r.m.s. AC or DC supply voltage not exceeding 600 V. Multimedia equipment (MME) is defined as Information technology equipment (ITE), audio equipment, video equipment, broadcast receiver equipment, entertainment lighting control equipment.

Answer 24 c:

Yes, it is acceptable to offer PTZ pan/tilt/zoom camera with integrated IR light which is accordance with EN 55032 standard.

Support for EN 55024 is expand with EN 55032 standard option in PTZ pan/tilt/zoom camera with integrated IR light specification.

The requirement: "standards: EN 60950-1, IEC 62471, EN 50130-4, EN 55024, EN 61000-3-2" is deleted and now reads "**standards: EN 60950-1, IEC 62471, EN 50130-4, EN 55024 or EN 55032, EN 61000-3-2**".

Please see [Corrigendum no.2](#) to tender dossier.

Question 25:

Item 1.1.49 - Supply, delivery and installation SC/SC duplex adapter 50/125

It is required to offer: "- *ceramic coating*". Most of the leading fiber optics accessories manufacturers for multimode adapters use phosphor-bronze coating material and ceramic coating for single mode adapters. Due competitiveness please consider changing request this request to "**Ceramic or phosphor-bronze coating**".

Answer 25:

The requirement: "ceramic coating" is deleted and now reads "**Ceramic or phosphor-bronze coating**".

Please see [Corrigendum no.2](#) to tender dossier.

Question 26:

Item 1.1.68 - Supply, delivery, mounting and connecting of the main power supply cabinet of the video surveillance system.

It is requested that **main power supply cabinet of the video surveillance system have IP66 protection rate**. Please, consider to change request for protection rate to IP65 because differences between this two protection rate is minor, if we look at the purpose of these power supply cabinets.

IP65 Enclosure - IP rated as "dust tight" and protected against water projected from a nozzle.

IP66 Enclosure - IP rated as "dust tight" and protected against heavy seas or powerful jets of water

Answer 26:

Yes, it is acceptable to offer cabinet with IP65 protection rate.

The requirement: " The cabinet, on-wall construction, steel with mounting panel and flange, mounting set and lock, IP66 protection rate, dimension 400x400x210 mm and equipped with: [...]" is deleted and now reads "**The cabinet, on-wall construction, steel with mounting panel and flange, mounting set and lock, IP65 or better protection rate, dimension 400x400x210 mm and equipped with: [...]**"

Please see [Corrigendum no. 2](#) to tender dossier.

Question 27:

Item 1.1.69 - Supply, delivery, mounting and connecting of the main power supply cabinet of the video surveillance system.

It is requested that **main power supply cabinet of the video surveillance system have IP66 protection rate**. Please, consider to change request for protection rate to IP65 because differences between this two protection rate is minor, if we look at the purpose of these power supply cabinets.

IP65 Enclosure - IP rated as "dust tight" and protected against water projected from a nozzle.

IP66 Enclosure - IP rated as "dust tight" and protected against heavy seas or powerful jets of water.

Answer 27:

Yes, it is acceptable to offer cabinet with IP65 protection rate.

The requirement: "The cabinet, on-wall construction, steel with mounting panel and flange, mounting set and lock, IP66 protection rate, dimension 400x400x210 mm and equipped with: [...]" is deleted and now reads "**The cabinet, on-wall construction, steel with mounting panel and flange, mounting set and lock, IP65 or better protection rate, dimension 400x400x210 mm and equipped with: [...]**"

Please see [Corrigendum no. 2. to tender dossier.](#)

Question 28:

Item 1.1.73 - Supply, delivery and mounting of the peripheral power supply cabinet of the video surveillance system

It is requested that **peripheral power supply cabinet of the video surveillance system** is suitable for temperatures from -25 to +60°C. Considering the fact that most of the manufacturers don't support this request, and to increase competitiveness, please consider changing the request to "from -20 to +60°C".

Answer 28:

The requirement: "*The cabinet with mounting panel and lock, on-wall construction, IP40 protection rate, dimension 280x230x105 mm, RAL 9010, made out of PVC, suitable for temperatures from -25 to +60°C equipped with: [...]*" is deleted and now reads "**The cabinet with mounting panel and lock, on-wall construction, IP40 protection rate, dimension 280x230x105 mm, RAL 9010, made out of PVC, suitable for temperatures from -20 to +60°C equipped with: [...]**"

Please see [Corrigendum no. 2. to tender dossier.](#)

Question 29:

Item 1.1.84 - Supply, delivery and installation self-extinguishing flexible pipe Φ 16/20

It is requested to offer: - " Φ 16/20". Please clarify the exact inner and outside diameter that is required in millimeters.

Answer 29:

It is necessary to offer self-extinguishing flexible pipe Φ 16/20 with min. 15,5 mm inner and max. 20 mm outside diameter.

Question 30:

In the documentation is stated that: "*By creating a project of the Video Surveillance System at international border crossings in Bosnia and Herzegovina, the foundations for the establishment of a functional Border Control System have been created using state-of-the-art technology solutions*". If this is the foundation for establishment of a functional Border Control System, it is expected that

functionality of GPS mapping is integrated part of the system in order to follow and report about the position of illegal crossing or other incidents on the border.

In the documentation is stated that *"Video surveillance of border crossings, among other things, enables the provision of evidence for the needs of judicial institutions, the prevention of corruption, the reconstruction of controversial events in controlled areas, the control and monitoring of the conduct of business processes and compliance with legality in the conduct of officials."* If it is required to provide reconstruction of controversial events in controlled areas it is expected that creating and storing basic information about the incident (GPS coordination, type of incident...) connected to video verification of the incident should be part of the system.

Also it is stated in documentation: *"Video surveillance system is of great importance for the monitoring of the border crossings. The new video surveillance system should enable border police to get information in real time and help them make timely decisions."*

Based on above statements in documentation we are expecting that in 1.1.3. Supply, delivery and installation of client application with included license for video management system and following minimum features encompass following requirements:

Software must have ability to capture automatically location of incident (GPS coordinate), name of the user/operator, name of the location and possibility for a operator to add description of incident. Without this information proper investigation of incidents that happen at the Border crossing will not be accurate or even possible.

Answer 30:

Specification required for item 1.1.3 "Supply, delivery and installation of client application with included license for video management system" remains unchanged.

Question 31:

Page 12 of 59 of the ANNEX II + III TECHNICAL SPECIFICATIONS + TECHNICAL OFFER quotes:

"Depending on the number of cameras, memory units of the appropriate capacity have been selected to ensure a 90- or 30-day archive of archives according to the budget in the main project." - Please clarify.

Answer 31:

Retention of video archive is calculated according to the end user needs and local laws. Bidder has to offer video recording servers with specified archiving space in items 1.1.4, 1.1.5, 1.1.6, 1.1.7 and 1.1.8.

Question 32:

Page 12 of 59 of the ANNEX II + III TECHNICAL SPECIFICATIONS + TECHNICAL OFFER quotes: *"Communication between camera and VMS software as well as between VMS software components (server and client) is encrypted"*. Please clarify.

Answer 32:

It is required that VMS client application uses encrypted protocol for authentication at VMS database. Also it is required for VMS to use encrypted protocol for authentication at IP camera.

Question 33:

Page 12 of 59 of the ANNEX II + III TECHNICAL SPECIFICATIONS + TECHNICAL OFFER quotes: *"All video clips exported to external media for further processing are protected by encryption algorithm and digitally signed."* Please clarify.

Answer 33:

Video Management System support for encrypted video export with digital signing is mandatory requirement.

Question 34:

Page 16 of 59 of the ANNEX II + III TECHNICAL SPECIFICATIONS + TECHNICAL OFFER Section VIDEO CONTROL EQUIPMENT paragraph 1.1.1. quotes: "*client application interface in one of the three constitutive languages in BiH*". Is this mandatory?

Answer 34:

Client application interface in one of three constitutive languages in BiH is mandatory requirement.

Question 35:

Page 19 of 59 of the ANNEX II + III TECHNICAL SPECIFICATIONS + TECHNICAL OFFER Section VIDEO CONTROL EQUIPMENT paragraph 1.1.2. quotes: "*client application interface in one of the three constitutive languages in BiH*". Is this mandatory?

Answer 35:

Client application interface in one of three constitutive languages in BiH is mandatory requirement.

Question 36:

Page 20 of 59 of the ANNEX II + III TECHNICAL SPECIFICATIONS + TECHNICAL OFFER Section VIDEO CONTROL EQUIPMENT paragraph 1.1.3. quotes: "*client application interface in one of the three constitutive languages in BiH*". Is this mandatory?

Answer 36:

Client application interface in one of three constitutive languages in BiH is mandatory requirement.

Question 37:

Page 26-27 of 59 of the ANNEX II + III TECHNICAL SPECIFICATIONS + TECHNICAL OFFER Section VIDEO CONTROL EQUIPMENT paragraph 1.1.21 quotes:

a) "*camera sabotage detection*"- sabotage is obtained with a tamper alarm; is this satisfactory?

Answer 37a:

Camera sabotage detection means camera tampering.

b) "*object search according to the following criteria: duration, size, proportion, speed, direction, color, four types of object classification*" - object detection could be based on object dimension without a reference to defined shape - is this satisfactory?

Answer 37b:

Camera must support defined criteria, which are related to camera video analytic functionality. An alarm event can be generated if objects match certain parameters.

c) "*Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module, ARM TrustZone, TI M-Shield or equivalent)*" - the camera has a Crypto-Authenticator device which stores security keys, these are used for a number of security features including the new Illustra Secure boot; is this satisfactory?

Answer 37c:

Camera must have integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module or ARM TrustZone or TI M-Shield or equivalent).

The requirement "*Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module, ARM TrustZone, TI M-Shield or equivalent)*" is deleted and now reads "**Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module or ARM TrustZone or TI M-Shield or equivalent)**".

Please see Corrigendum no. 2. to tender dossier.

- d) "*... temperature operation conditions according to the NEMA TS 2-2003 (R2008)*" - NEMA compliance to be verified with the Camera release is this satisfactory?

Answer37 d:

Offered cameras must comply with requested set of standards.

Question 38:

Page 27-28-29 of 59 of the ANNEX II + III TECHNICAL SPECIFICATIONS + TECHNICAL OFFER Section VIDEO CONTROLEQUIPMENT paragraph 1.1.22. quotes:

- a) "*camera sabotage detection*" - sabotage is obtained with a tamper alarm is this satisfactory?

Answer 38a:

Camera sabotage detection means camera tampering.

- b) "*object search according to the following criteria: duration, size, proportion, speed, direction, color, four types of object classification*" - object detection could be based on object dimension without a reference to defined shape is this satisfactory?

Answer 38b:

Camera must support defined criteria, which are related to camera video analytic functionality. An alarm event can be generated if objects match certain parameters.

- c) "*Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module, ARM TrustZone, TI M-Shield or equivalent)*" - the camera has a Crypto-Authenticator device which stores security keys, these are used for a number of security features including the new Illustra Secure boot.

Answer 38c:

Camera must have integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module or ARM TrustZone or TI M-Shield or equivalent).

The requirement "*Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module, ARM TrustZone, TI M-Shield or equivalent)*" is deleted and now reads "**Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module or ARM TrustZone or TI M-Shield or equivalent)**".

Please see Corrigendum no. 2. to tender dossier

- d) "*temperature operation conditions according to the NEMA TS 2-2003 (R2008)*" - NEMA compliance to be verified with the Camera release is this satisfactory?

Answer 38 d:

Yes, it is acceptable to offer indoor IP dome camera with integrated IR light without support for NEMA TS 2-2003 (R2008) and EN 60950-22 standard because this two standard are related to outdoor cameras.

The requirement: "standards: EN 50121-4, EN 60950-1, EN 60950-22, IEC 62471, EN 50130-4, EN 50130-5, EN 55024, temperature operation conditions according to the NEMA TS 2-2003 (R2008)" is deleted and now reads

"standards: EN 50121-4, EN 60950-1, IEC 62471, EN 50130-4, EN 50130-5, EN 55024"

Please see Corrigendum no. 2. to tender dossier.

- e) ". object search according to the following criteria: duration, size, direction, color,- support for fine calibration of video analytic events - bi directional audio"- No audio detection; is this acceptable?

Answer 38e:

Camera must support defined criteria, which are related to camera video analytic functionality. An alarm event can be generated if objects match certain parameters.

Question 39:

Page 29-30 of 59 of the ANNEX II + III TECHNICAL SPECIFICATIONS + TECHNICAL OFFER Section VIDEO CONTROL EQUIPMENT paragraph 1.1.23. quotes:

- a) ". camera sabotage detection" - sabotage is obtained with a tamper alarm is this satisfactory?

Answer 39a:

Camera sabotage detection means camera tampering.

- b) ". object search according to the following criteria: duration, size, proportion, speed, direction, color, four types of object classification" - object detection could be based on object dimension without a reference to defined shape is this satisfactory?

Answer 39 b:

Camera must support defined criteria, which are related to camera video analytic functionality. An alarm event can be generated if objects match certain parameters.

- c) ". Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module, ARM TrustZone, TI M-Shield or equivalent)" - the camera has a Crypto-Authenticator device which stores security keys, these are used for a number of security features including the new Illustra Secure boot.

Answer 39 c:

Camera must have integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module **or** ARM TrustZone **or** TI M-Shield or equivalent).

The requirement: "Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module, ARM TrustZone, TI M-Shield or equivalent)" is deleted and now reads "**Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module or ARM TrustZone or TI M-Shield or equivalent)**".

Please see Corrigendum no. 2 to tender dossier.

- d) ". temperature operation conditions according to the NEMA TS 2-2003 (R2008)" - NEMA compliance to be verified with the Camera release is this satisfactory?

Answer 39d:

Offered cameras must comply with requested set of standards.

- e) ". object search according to the following criteria: duration, size, direction, color, - support for fine calibration of video analytic events - bi directional audio" - No audio detection; is this acceptable?

Answer 39 e:

Camera must support defined criteria, which are related to camera video analytic functionality. An alarm event can be generated if objects match certain parameters.

Question 40:

Page 30,31 of 59 of the ANNEX II + III TECHNICAL SPECIFICATIONS + TECHNICAL OFFER Section VIDEO CONTROL EQUIPMENT paragraph **1.1.24**. quotes: ". support for video analysis" - There are no Video Analytics supported; is this acceptable?

Answer 40:

Camera must support requested video analysis features.

Question 41:

Please confirm, whether the video recording servers specified in Item 1.1.4, 1.1.5, 1.1.6, 1.1.7 and 1.1.8 will be installed in rack cabinet specified in Item 1.1.50 and 1.1.51?

Answer 41:

Video recording server specified in Item 1.1.4, 1.1.5, 1.1.6, 1.1.7 and 1.1.8 will be installed in rack cabinet specified in Item 1.1.50 and 1.1.51 and the depth for the offered video recording server specified in Item 1.1.4, 1.1.5, 1.1.6, 1.1.7 and 1.1.8 can be maximum 600 mm. **Due to limited space on locations, dimension for rack cabinet specified in Item 1.1.50 and 1.1.51 can deviate +/- 2% maximum.**

Please see Corrigendum no.2 to tender dossier.

Question 42:

For Item 1.1.21, 1.1.22, 1.1.23 and 1.1.24 is specified that this cameras have "*Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module, ARM TrustZone, TI M-Shield or equivalent)*". Please, consider to change this request to: "Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module or ARM TrustZone or TI M-Shield or equivalent)" because there is no cameras on the market that support all three above mentioned chip for crypto protection.

Answer 42:

Items 1.1.21, 1.1.22, 1.1.23, 1.1.24: The requirement: "*Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module, ARM TrustZone, TI M-Shield or equivalent)*" is deleted and now reads "**Integrated or external chip for crypto protection of stored certificates (TPM-Trusted Platform Module or ARM TrustZone or TI M-Shield or equivalent)**"

Please see Corrigendum no.2 to tender dossier.

Question 43:

Item 1.1.52 – Supply, delivery and installation of uninterruptible power supply (UPS)

Please clarify, is it acceptable to offer uninterruptible power supply (UPS) with autonomy more than 10 minutes?

Answer 43:

Yes, it is acceptable to offer uninterruptible power supply (UPS) with autonomy more than 10 minutes.

Please see [Corrigendum no.2 to tender dossier](#).

Question 44:

Item 1.1.54 - Supply, delivery and installation of 24VDC switching power supply unit

Is it acceptable to offer 24VDC switching power supply unit that support standard EN55032(CISPR32) instead EN55022 because standard EN55032(CISPR32) is an amalgamation of EN55022 / 55103-1 standards?

Answer 44:

Yes, it is acceptable to offer 24VDC switching power supply unit that support standard EN55032 (CISPR32) instead EN55022.

Please see [Corrigendum no.2 to tender dossier](#).

Question 45:

Item 1.1.24 - Supply, delivery and installation of PTZ pan/tilt/zoom camera with integrated IR light

Please consider to remove support for EN 55024 standard from specification because this standard is not relevant for PTZ cameras. Standard EN 55024 defines the immunity test requirements for Information Technology Equipment (ITE) and PTZ cameras isn't Information Technology Equipment.

Answer 45:

Yes, it is acceptable to offer PTZ pan/tilt/zoom camera with integrated IR light which is accordance with EN 55032 standard.

Support for EN 55024 is expand with EN 55032 standard option in PTZ pan/tilt/zoom camera with integrated IR light .specification.

The requirement: " standards: EN 60950-1, IEC 62471, EN 50130-4, EN 55024, EN 61000-3-2" is changed to " **standards: EN 60950-1, IEC 62471, EN 50130-4, EN 55024 or EN 55032, EN 61000-3-2**".

Please see [Corrigendum no.2 to tender dossier](#).

Question 46:

Item 1.1.9 - Supply, delivery and installation of server

Please confirm that is acceptable to offer server with two 450W or 750W redundant power supply unit.

Answer 46:

The requirement: "redundant power supply with maximum consumption 750W" is deleted and now reads "**Power supply: min. 750W, redundant, hot swap**".

Please see [Corrigendum no.2 to tender dossier](#).

Question 47:

Item 1.1.13 - Supply, delivery and installation of storage system

Please confirm that is acceptable to offer storage with two 580W redundant power supply unit.

Answer 47:

Yes, it is acceptable to offer storage with two 580W redundant power supply unit.

Question 48:

Item 1.1.15 - Supply, delivery and installation of workstation with preinstalled 64-bit operating system

In order to increase competitiveness, please consider to change request for maximum consumption from 250W to 270W.

Answer 48:

The requirement: "maximum consumption 250W" is deleted and now reads "**maximum consumption 260W**"

The requirement: "DVD-RW DL 16x recorder" is deleted and now reads "**DVD +/-RW 8x recorder**"

Please see [Corrigendum no. 2. to tender dossier](#)

Question 49:

Item 1.1.16 - Supply, delivery and installation of workstation with preinstalled 64-bit operating system

In order to increase competitiveness, please consider to change request for maximum consumption from 250W to 270W.

Answer 49:

The requirement: "maximum consumption 250W" is deleted and now reads "**maximum consumption 260W**".

The requirement: "DVD-RW DL 16x recorder" is deleted and now reads "**DVD +/-RW 8x recorder**".

Please see [Corrigendum no. 2. to tender dossier](#)

Question 50:

Item 1.1.17 - Supply, delivery and installation of LCD monitor

In order to increase competitiveness, please consider to change request for maximum consumption from 40W to 45W.

Answer 50:

The requirement: "maximum consumption 40W" is deleted and now reads "**maximum consumption 45W**".

Please see [Corrigendum no.2 to tender dossier.](#)
