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**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Electrical & Electronics Products Division
L'Esplanade Laurier
East Tower, 4th floor,
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Title - Sujet INTRUSION DETECTION SYSTEM	
Solicitation No. - N° de l'invitation 21120-196517/B	Amendment No. - N° modif. 006
Client Reference No. - N° de référence du client 21120-19-2956517	Date 2019-07-04
GETS Reference No. - N° de référence de SEAG PW-\$\$HN-445-77030	
File No. - N° de dossier hn445.21120-196517	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-07-17	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
F.O.B. - F.A.B.	
Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Ladouceur, Joanne M.	Buyer Id - Id de l'acheteur hn445
Telephone No. - N° de téléphone (613) 296-4282 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: SEE HEREIN	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

This amendment 006 is raised to provide a response to supplier questions as follows.

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Question: 7.1.1a second- and third-line service and support such that, should an Intrusion Detection System cease to function or break through regular use and the Contractor-trained Authorized User maintenance technician is unable to restore normal function through the execution of the maintenance options provided by the Contractor's training, the Intrusion Detection System must be restored or replaced within 72h by the Contractor;

7.1.1d a Mean Time to Repair (MTTR), defined as the total time from notification of repair requirement to system ready status, must not exceed seven (7) business days, including shipping (estimated at 24-hour shipping time each way). The MTTR includes all diagnostic activities; and...

3.1.6 Warranty Repairs

It may be necessary for warranty repairs to be performed on site. You are requested to provide response time and location of nearest office/depot providing staff for this work. Response time shall not exceed forty-eight (48) hours. The contact person is as follows:...

Can you please clarify what is required within each of these specified time periods, i.e.:

- a. What is the difference between the requirement for faults to be 'restored or replaced within 72h' (7.1.1a) and an 'MTTR of 7 business days' (7.1.1d).
- b. How do these times relate to the 48h response time specified in 3.1.6. Is 48h the time to arrive at site and begin diagnostics?

Response: a. My mistake, there should be no difference between the requirement for faults to be 'restored or replaced' (7.1.1a) and an 'MTTR' (7.1.1d). So seven (7) business days should be assume for both requirements 1) 7.1.1a "faults to be restored or replaced" and 2) 7.1.1d MTTR
b. 3.1.6 should read "within 7 business days".

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Question: Will the new system be on its own switch network? Or occupy a VLAN on existing network?
If so, 1) Are the current Switches capable of VLAN? 2) What is the model of switches in the MCCP?

Response: Up to bidders to propose the cost optimal solution. Design will be reviewed with CSC network engineer during Preliminary Design review. 1) yes 2) Detail information to be provided after contract award.

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Question: Who is responsible to create VLANS if needed?

Response: Contractor under the supervision of CSC.

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Question: It has been requested during Site visit that Wireless communication be used between the farm and the South tower. Does CSC have a Specification or standard that need to be adhered too?

Response: No Specification or standard that needs to be adhered to is available at this point

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Question: If new switches are required does CSC have a Specific switch needed to meet CSC Network Specifications?

Response: Beside the requirements included into this RFP, no Network Switches design specifications will be provided, but during Preliminary Design Review, CSC will review the proposed switches to ensure they are compatible with our existing network design.

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Question: Will there be Mandatory site visits at the other sites?

Response: No

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Question: If not, will the crown provide accurate conduit runs from perimeter location?

Response: No

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Question: Will the system require UPS circuits?

Response: Yes, in case where this has been identified in the information package.

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Question: How long is required for run time?

Response: One Hour of operation is required.

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Question: Is there a UPS Specification that can be provided?

Response: No

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Question: If the ability is track 10 targets simultaneously what is the requirement for the number of cameras? is it 1camera to 1 radar around the perimeter or a max 10 cameras to track and view 10 targets.?

Response: The number of PTZ cameras expected is defined into the Annex A 3.2.3, 4.2.2, 4.2.26, 4.3.20, 4.3.21

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Question: What is the minimum pixel density to the target whether it is drone or human target and at what distance should the defined target be picked up at?

Response: For drone, requirement 4.2-d specifies 15 pixels horizontal on drone DJI Phantom 3. DJI Phantom 3 size is approximately 30cm wide). For human target, requirement 4.3.5 specifies 6cm/pixel when within the no go zone. The no go zone schematic was provided during the site visit.

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Question: Is the camera compatible with the current VMS?

Response: Camera outputs needs to be connected and video recorded by existing Genetec VMS system

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Question: What version of Genetec VMS is on each site?

Response: Here are the versions of Genetec VMS in used at each site :

- a) Mission, BC – Omnicast 4.8
- b) Stonymountain, MA – Security Center 5.7
- c) Collins-Bay, ON – Omnicast 4.8
- d) Cowansville, QC – Omnicast 4.8
- e) Donnacona, QC – Omnicast 4.8
- f) Dorchester, NB – Omnicast 4.8

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Question: If Camera is not supported can The ONVIF extension be used?

Response: The video from the Cameras has to be recorded by existing Genetec VMS system

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Question: If System does not Support Camera is the VMS to be upgraded?

Response: Yes, if new VMS version is necessary and is approved by CSC

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Question: Are camera and radar equipment failure to be recorded on PIDS computers.?

Response: No.

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Question: Does the Site have an NTP server?

Response: Here are the answer on NTP server at each site :

- g) Mission, BC – Yes NTP server in place
- h) Stonymountain, MA – Yes NTP
- i) Collins-Bay, ON – No NTP
- j) Cowansville, QC – No NTP
- k) Donnacona, QC – No NTP
- l) Dorchester, NB – Yes NTP

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Question: Is time synchronization required with the NTP Server?

Response: Yes

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Question: Where does the PTZ cameras get recorded?

Response: The video get recorded into Genetec VMS and within the C2. See revised requirement in Annex A 4.1.7 “For all detections automatically classified as a threat, retain all video, track, and configuration data to be maintained for a minimum of 24 months;”

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Question: How long does the video need to be archived for?

Response: Video need to be archived for 7 days Genetec VMS, and 24 months in AGIDS.

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Question: How Long does CSC expect to keep the recorded video?

Response: CSC expects to keep the recorded video for 7 days within Genetec VMS, and 24 months in AGIDS (Positive detections only).

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Question: Will licenses need to be added to current VMS.

Response: Yes, one license per camera is required

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Question: During the onsite visit to Collins Bay, multiple manned aircraft were potentially within range of the aerial radar. If a manned aircraft were to enter into a warning area, should the system also alert on this track?

Response: Yes, See Annex A 3.5, 3.6, 3.16, 3.17, 4.2.1, 4.2.14, 4.2.15

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Question: Are the secondary monitoring stations discussed during the onsite visit and in the package received during the onsite visit expected to allow user interaction, and to perform independently of the MRCC? (i.e. Should the radar display allow the secondary monitoring station user to pan and move the map or should this just be a mirror of the display in the MRCC?

Response: No, the secondary monitoring station doesn't need user to pan and move the map, so only a mirror of the display is required.

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Question: If a UAV was to enter into a warning zone, and be acknowledged by an operator in the MRCC, should the secondary monitoring station also acknowledge the alert?

Response: No, the secondary monitoring station doesn't need to acknowledge the alert. Its function is to mirror the main station only.

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Question: It was mentioned during the site visit that there was asbestos in the farm buildings. Would it be possible to receive an Asbestos assessment report?
So we can have it evaluated by a Certified Asbestos abatement contractor?
a. Where is the Asbestos? Drywall? Insulation in crawl spaces/Attics?
Is there any other sites with Asbestos?

Response: CSC already have a project in place to address the issue of Asbestos. Contractor will have to wait until Asbestos issue is resolved before any work can proceed at this building. Information report will be shared if needed after contract award.

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Question: Can the Abatement be removed from this Tender and be completed by a Certified environmental Abatement contractor?
a. If the abatement is not excluded from scope of work Would Canada permit an abatement Contractor time to review the reports and inspect the site in order to properly assess an estimate to complete the work?

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Response: Yes, as stated in the environmental plan distributed during the mandatory site visit, cutting or trimming of trees is part of the scope of work and cost estimate have to be included as part of your bid.

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Question: What is the call up requirement? can any Radar select any camera? “

Response: Dedicated PTZ cameras will be associated with Ground and Air Intrusion radars, so any of those dedicated cameras can be selected.

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Question: What is the frame rate required by the camera?

Response: 20fps minimum

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Question: Does the Camera have to be a supported device in Genetec?

Response: Yes, video feeds from PTZ cameras are expected to be connected to Genetec VMS

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Question: What is the bandwidth of the current network . a. What is available network?

Response: Bandwidth of the internal security network is not expected to be an issue. Spare bandwidth to handle additional cameras exists.

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Question: What is current available storage of VMS?

Response: Contractor is responsible to acquired additional licenses and ensure 7 days of storage is available for additional PTZ cameras

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Question: What is the current fiber links back from towers example :OM1, OM3?

Response: We don't understand terms « OM1 and OM3 ». To answer your question, CSC have a tendency to replace its multi-mode fiber to single-mode fiber but since no attention paid during the visit to the type of fiber deployed, it is possible that some institutions are still using multi-mode fiber.

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Question: The RFP requires that the Intrusion Detection System do the following: “For all detections, retain all video, track, and configuration data to be maintained for a minimum of 24 months;”. Is the Intrusion Detection System expected to interface with an existing data storage medium/system?

Response: The requirement should be changed to: “For all detections automatically classified as a threat, retain all video, track, and configuration data to be maintained for a minimum of 24 months;” It is expected video feeds from the Intrusion Detection System be sored into Genetec VMS and into the C2 Internal storage.

=====
Question: It is assumed that there is already a video recording system in place at these facilities. Will it be necessary to provide our own video recording system or can the proposed solution interface with the existing hardware/software?

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Response: It is assumed that you will provide your own recording system to store video, track, and configuration data for a period of 24 months for all positively classified threats.

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Question: Will this software/hardware be sufficient to keep record of AGIDS video data for 24 months?

Response: It is up to the contractor to supply enough storage in the AGIDS to meet this requirement

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Question: Will the proposed solution need to interface with any other data logging systems?

Response: Yes, with the Genetec video management system

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Question: If the system must integrate with the existing video recording solution, are there any differences in version or provider between any of the 6 sites?

Response: Yes, Stony Mountain is using Security Center 5.7 from Genetec and all the other 5 institutions are using Genetec Omnicast 4.8.

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Question: The RFP in section 4.1.10 requests that the proposed solution “allow the administrator to generate configurable reports on track activity;”, but does not list what the configurable reports should contain.
a. Can you provide input into what type of report the system should generate and what they should contain?

Response: Administrator should be able to generate reports relative to track activities detected. Configuration should allow to generate reports according to certain parameters of the tracks, for instance, time of the day, dates, track altitudes, and do some agglomeration like how many track per day, per month, in a period, etc. to be defined.

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Question: 1) The RFP in section 4.4.19 requires that “The system should detect any live external communications link connected to the system”.
a. What external communications links can be connected? What are they referring to?
b. Is this insinuating that the secondary displays on remote locations (i.e. guard tower) should report to the main display in the MRCC showing that they are connected?
c. Or is this referring to the sensors which are reporting in to the system, and that there should be some sort of representation of the connection status of these sensors?

Response: a. No external communication with the outside world is expected. If this ever happen we want your system to detect it and raise an alarm.
b. No, we only expect the secondary display to show what is being displayed in the primary station.
c. No, the same display of information is expected at the secondary location.

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Question: You have clarified in the Amendment 004 that “All of the requirements listed in the STR are classified as mandatory”
a) Can you confirm that items M1 to M5 of paragraph 1.1, presented as the Mandatory Criteria, are just a subset of the mandatory criteria which are indeed all requirements save for optional requirements of section 4.5?
b) If any respondent fails to provide a fully compliant response to any and all of the Technical requirements including technical annex, will the Respondent be considered to have failed the pass/fail criteria and be disqualified from the project?

- c) For example, we note that one of the requirements (MTBF of 75,000 hours) is a stringent requirement which is currently not met by most radar suppliers. This criterion cannot be tested. Of note, there are other requirements which may not meet all the specified technical requirements. Will a Respondent be able to identify their offered existing MTBF value, and propose an alternative compliant statement, or will failure to this one requirement result in a Failed bid response?
- d) Or, will there be a revised scoring methodology such that an Offeror be able to provide an Alternate Compliant to some of the STR "mandatory requirements" and will such alternate compliance allow for an Offeror to be considered to proceed to the Data Validation testing phase?

- Response:**
- a) Yes, you are correct the mandatory criteria are indeed all requirements , except for optional requirements of section 4.5, and items M1 to M5 of paragraph 1.1, presented as the Mandatory Criteria.
 - b) To be compliant a bid, it needs to pass all of the Technical requirements including technical annexes.
 - c) Eliminating the Mean Time Between Failure requirement to availability one. So the requirement for Section 5.5.1 is replaced by: "the system availability should be 98% "
 - d) No plan to revise the scoring methodology, the top 3 best score technically compliant offers meeting the mandatory technical criteria, will be allowed to move to the Data Validation testing phase.

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- Question:**
- Can you please clarify on which basis the potential Suppliers will be invited to participate:
 - o All Offers meeting Mandatory Requirements M1 to M5?
 - o Or all offers meeting all the requirements identified in the STR in addition to the Mandatory Requirements, e.g. 190+ requirements, excluding the Optional Requirements?
 - o Will the name of all invited Offerors be made public to all Bidders?

- Response:**
- Only the top 3 best score technically compliant offers meeting the mandatory technical criteria, will be allowed to move to the Data Validation testing phase. If the first top 3 ranked bidders fail to demonstrate compliance, then the next compliant Bidder will be selected for the Data Validation testing phase. This process will be repeated until there is a successful Bidder. Names are considered under the Privacy Act and will therefore not be provided.

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- Question:**
- 1. Can you please clarify the provisional schedule:
 - o When do you envisage the notification could be sent? An indicative timeframe would be appreciated for planning purposes.
 - o Offeror must send system to Alma. Testing date to be mutually agreed. But, system must be made available within 15 days after notification of compliant offer". We interpret this to mean, system is required to be shipped to Alma, QC within 15 days of notification, but scheduling of joint testing may take place afterwards, based on mutual agreement. Can you please confirm this interpretation?

- Response:**
- Notification should be sent 4 weeks after proposals submission period ends. The actual test date will be communicated at the same time as the notification of compliance, and will be 15 days after the notification.

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- Question:**
- 1. "Only one Data Validation test will be performed"... "The Data Validation Testing Grid provided below."
 - o The RFP recognizes and identifies that there is a period of time, and budget, allocated for Software Integration activities as part of the project. However the proposed 15 day period for start of Data Validation Testing will not be sufficient considering the need for integrating specific requirements for

this project, even though we already have an operational solution. To meet a 15 day period interval, then could the Data Validation Testing requirements be reduced in number and scope, so that we can give confidence to CSC about what we can deliver, but explain why some of the 15 tests are not yet met, and detail why, and how we will meet them on time for the Project?

Response: We are of the opinion that the elements to be tested are basic system capabilities and do not require specific integration.

=====
Question: 1. "Test results from the Data Validation test will be used to confirm compliance of some requirements."
o Please clarify that "some requirements" means all the requirements identified in the table of (15) requirements

Response: To pass the data validation test, all the requirements identified in the table of 15 requirements need to pass successfully: Annex A 4.2.11, 4.2.14, 4.2.14, 4.2.10, 4.2.16, 4.2.1.3, 4.2.1.4, 4.2.17, 4.2.3, 4.2.4, 4.2.12, 4.3.3, 4.4.6, 4.3.1, 4.3.5

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Question: We advise that the Req. Paragraph Numbers are not all referenced correctly (and differ from the French version)

Response: Sorry for the confusion.

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Question: Will the Data Validation Testing Grid text criteria (15 requirements) be the sole list of requirements that will constitute validation of performance claims and compliance with the requirements?

Response: If the technical evaluator have a sufficient reason to believe that a requirement cannot be met by the system through system modification, they can ask for this requirement to be demonstrated or at least get a clarification.

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Question: Will the scoring method be a stringent Pass/Fail, or will it be scored based on other criteria.

Response: Stringent Pass/Fail criteria

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Question: Can you provide detail on envisaged deployment order (if any). Which site is required to be the first to be deployed, or can we make recommendations?

Response: The 1st deployment site is not known at this time, our preference is to start with Donnacona or Collins Bay.

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Question: We request a minimum of a two-week extension.
- We would like to ask for an extension to the closing date of July 3rd 2019 for the above-mentioned project.
- While we recognize that you have said no to an extension, we respectfully request an extension given that bidders have lost two weeks to the delay on the site visit, the extensive site survey information and additional requirements contained in the information distributed at the mandatory site visit. We believe it is in the best interest of CSC to allow bidders sufficient time to incorporate the site survey information into the bid response. Would CSC please reconsider extending the bid deadline to August 2, 2019?

- Given the complexity of this solicitation covering multiple sites in different provinces and the amount of critical information received at the site visit, would CSC please consider extending the closing date by two weeks to July 17, 2019?
- Kindly advise whether the deadline could be extended till 2019-08-03.
- Therefore we would like to request that PWGSC considers a 2-week extension to the closing date. Ultimately this small extension will not affect the project delivery date.
- given the extensive information provided at the mandatory site visit, can we please have a 4 week extension? This is the first time we have a complete picture of the requirements. By the way, the site visit and the material provided were excellent and necessary.

Response: The best we could do is to extend the RFP closing date to July 17, 2019.

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Question: The STR defines various zones (Warning Zone, No-Fly zone, No-Go Zone and Ground Warning Zone). The STR also defines different ranges of these zones. The drawings that were issued during the mandatory site visit, does not show these zones and is difficult to interpret where these zones land in relation to the drawings provided. Can we get drawings indicating where these zones are for each of the institutions?

Response: The different air intrusion zones were not shown in the information packages distributed during Collins Bay visit, As defined in RFP, No-fly zone is 400m slant range from sensor. Air Warning zone is 750m slant range from sensor. This is for DJI Phantom type drone. It is also anticipated that the system performance will increase if drone size increases. Ground intrusion warning zone and no go zones were shown in the information package distributed during the mandatory site visit at Collins Bay.

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Question: Are there any height restrictions for the Air Intrusion Detection System radar mounting position at any of the facilities?"

Response: No, it is for you to determine the best way to maximize detection and volumetric coverage.

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Question: It was noted in the site survey that SpotterRF technology was used to calculate the recommended radar installations. Will SpotterRF or a vendor be allowed to bid SpotterRF's solution on this RFP?

Response: Yes

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Question: To be fair to all bidders and so that bidders are able to properly estimate the amount of cabling that we need to budget for, please provide a maximum estimated cable length for each site, in meters, that bidders will have to install from each recommended location where data networking needs to be provided.

Response: No, it is up to each bidder to estimate the cable length for each site.

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Question: How would you like software priced? We can price it as a subscription or as a perpetual license?

Response: As a subscription

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Question: Item 1: Appendix A – 4.1.7 “For all detections, retain all video, track, and configuration data to be maintained for a minimum of 24 months”: Can you please clarify if the term “detection” refers to alerts generated by the system, or all (ground) detections including those generated within the

perimeter that shall not be considered as alerts (visitors, staff, etc.)? In the latter case, this will generate a larger amount of data storage requirements.

Response: The requirement for Appendix A – 4.1.7 should be changed to: “For all detections automatically classified as a threat, retain all video, track, and configuration data to be maintained for a minimum of 24 months;” For Ground, recording must happen only for tracks are originated from outside the warning zone (Blue line) Referring to Annex A 4.3.8

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Question: Appendix A – 4.4.7 “Display a user chosen institution centric map”.
Can you please clarify the meaning of “user chosen” here:
• Can each institution impose or require a different map? If yes please clarify what map/tool(s) as this may impact the SW integration. Are there any specific requirements in terms of the map precision?

Response: The system should allow the institution to upload a map of their choice, in accordance with system compatibility constraints which should include common file source (like google maps) and file formats

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Question: Please clarify if specific maps are to be provided by CSC ?

Response: The vendor must provide a base map, which CSC can then change if needed

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Question: Can we quote as a standard the use of a generic map (Google-type)?

Response: Yes

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Question: Would the Crown please advise if there are free network switch ports at each radar location (building) on a site by site basis as well as CER Network switches for all of the required radars & cameras. If not, are bidders required to provide new switches, racks and backup/UPS power?

Response: Information about Network port availability has been provided as part of the package for both Air and Ground Radars. If you need more ports then yes, bidders are required to provide new equipment's: switches, racks and backup/UPS power etc.

=====
Question: When the photographs were taken for the Radar layouts, for the various sites was the camera elevated to the installation points, marked with the red X?

Response: Yes, at one exception, in Collins-Bay, radar 4 & 5, pictures were taken at ground level, as the lift got stuck in wet grass.

=====
Question: As a reminder, during the site visit hard copies of the site radar layouts were distributed. At that time we were told that electronic copies would be sent out. Can you confirm we will be getting these ?

Response: Information has been provided to all participants of the mandatory site visit.

=====
Question: Additional mandatory requirements were discussed during the Kingston site survey activities. These are not identified in the current tender documents. The impact of these new requirements will impact also the other 5 CSC sites.

Examples include: trees required to be trimmed or chopped by Respondent, structural engineering for roof installation of radar; additional C2 display at Collins Bay and Dorchester; wireless point to point link for equipment without exiting network; etc.

Response: No new requirements should be assumed. All requirements have been documented in the Request for Proposal, and in the Environmental Plan for the work to be performed, example: trees to be cut, etc.

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Question: Due to the nature of additional scope, and responsibilities required for the bidders, we request an additional one month delay for submission.

Response: CSC agree to push out the deadline for submitting to July 17, 2019

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Question: Electronic versions of the site survey documentation was committed to be sent to Site Survey participants. We respectfully request this information urgently to assist in development of our response to the Bid.

Response: Information has been provided to all participants of the mandatory site visit.

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Question: A4.1.11 States that connection of the security network is 'allowed'.
1. Is connection of the security network mandatory or can the AGIDS system be stand alone?

Response: AGIDS connection to existing the security network is mandatory in order to be able to connect the PTZ cameras to the Genetec system.

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Question: Can a description of the security network and its properties be provided, such as can it facilitate connection to VPNs and classification of network?

Response: Confidential information, this information will be provided during after contract award.

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Question: A4.2.2.d states at least 15 pixel horizontal on target. At what range is this required?

Response: Annex A 4.2.2a range of 300m

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Question: A4.2.26 states potential locations will be provided and final choice must be decided in consultation. When is the period of this consultation, prior or post bid submission? If post bid submission, should the bidders preferred location be assumed to be granted?

Response: Bidders preferred location will be considered if better volumetric coverage and performance is achievable

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Question: A4.4.16 states 'allow the remote user and operator to...' Can a description be provided on what these two roles entail, or what aspect of these users are being implied as part of this requirement?

Response: Remote user role is defined in 4.4.18. Operator role is defined in definition 3.13

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Question: Please provide the order of installation sites. (Which site is scheduled for this year?)

Response: The order of installation is not known at this time, our preference is start with Donnacona or Collins Bay as first installation.

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Question: Amendment #4 has the following question and answer: Posed Question: Can we as a Canadian company/bidder, part of larger conglomerate of companies, with some projects executed in the listed environments claim some projects completed by a sister company, located overseas, in order to qualify to mandatory requirement M1? Crown Response: Yes

New Question: It was presumed that mandatory requirement M1 was intended to lower the risk of project delivery to CSC by employing a firm as the prime bidder with their own relevant prior experience. Can the Crown please describe the role that a "relationship" company must play in the delivery of the CSC project for their resume to be considered as acceptable for meeting mandatory requirement M1?

Response: This would be identified as a Joint Venture and defined as follows:
Association of two or more parties who combine their money, property, knowledge, expertise or other resources in a single joint business enterprise, sometimes referred as a consortium, to bid together on a requirement. (2010-01-11) (coentreprise)

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Question: Follow on Question: If no direct participation in this project is required of a "relationship" company for their resume to be deemed relevant, can the Crown please describe the level of "relationship" with another company that is deemed sufficient for their corporate resume to be deemed as acceptable for meeting mandatory requirement M1?

Response: Additional information regarding Joint Ventures may be accessed through clause 2003, para. 17 (2010-01-11) Joint Venture, at the following link :
<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/1/2003/24#joint-venture>

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Question: The RFP refers to the bidder integrating ADS-B signals. Is the bidder to provide the ADS-B receiver at each location?

Response: Yes

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Question: Does the Indoor equipment environmental requirements (5.2.2b (0°-50°C) and 5.2.2c) apply to all equipment to be operated 'indoors' given that these requirements mandate an abnormal specification for office or equipment room equipment or for a human working? A generic standard would be +5 °C to +35 °C for such an area and specification beyond this may entail extra cost in supply of potentially unnecessary equipment.

Response: Yes, 0°-50°C is what we are asking for equipment operating in door. Only the Computer Equipment Room could guaranty +5 °C to +35 °C ambient. Equipment operating in CER can be rated 5-35 degrees.

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Question: Does the MOC currently have VOR's for Structural Engineering and Arborists, either nationally or regionally that we should be using to facilitate this tender? If not, is there any criteria that these two types of companies need to adhere to and/or be aware of for the purpose of executing this project?

Response: No. The work must be done according to the rules of the art of each profession.

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Question: Is there an option, upon commissioning and for a period of 90 days following to have remote access into the server to fine tune the performance of the systems at each location?

Response: No

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Question: Can you please confirm that technicians while installing the system will be permitted to carry laptops, cellphones (means of communication) and all required tools to facilitate the installation either on the perimeter and/or interior of the facilities.

Response: Yes they will be allowed to carry cell phones and laptops and required tools

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Question: 4.2.9 - The requirement states that the "friendly" ads-b track shall not generate an alarm, but there will also be a corresponding radar return from this track as well. Should the Radar track generate an alarm?

Response: The idea is to avoid generating an alarm when the Air Intrusion Detection system is detecting a Drone equipped with an ADS transponder. So, no radar alarm expected.

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Question: As you have based your specification on the Spotter-RF Product, clearly stated in documentation, what Camera have you described in the STR?

Response: No camera or radar have specifically been chosen for this RFP.

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Question: 4.2.25: "any active illumination must comply with the Canada's Aeronautics Act". Could CSC please quote the specific parts of this Act that apply to this requirement?

Response: It includes but is not limited to Canadian Aviation Regulations 601.14, 601.20, 601.21, <https://laws-lois.justice.gc.ca/eng/regulations/sor-96-433/fulltext.html>, and <https://www.tc.gc.ca/en/campaigns/not-bright-idea.html>

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Question: In our extensive experience using radar for Perimeter Intrusions Detection Systems, we have found that requirements for the quality and timeliness of detection and response are critical to a useful system. We recommend the addition of the following requirements or similar, to both the Statement of Requirement and Data Validation Testing:

1. Ground Intrusion detections must occur and be visible to the operator and alarm within 10 seconds of target entering the No-Go-Zone.
2. Camera response to Ground Intrusion detections must show an image of the intruder within 10 seconds of detection.
3. False detections and nuisance alarms in the No-Go-Zone shall be limited to less than one per hour during the evaluation period.

Response:

1. Ground Intrusion detections must occur and be visible to the operator and alarm within 5 seconds of target entering the No-Go-Zone
2. Camera response to Ground Intrusion detections must show an image of the intruder within 5 seconds of detection.
3. False detections and nuisance alarms in the No-Go-Zone shall be limited to less than two per day(24h period).

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DELETE : *Evaluation Criteria and Evaluation Procedures*

Data validation testing

For all compliant offers meeting the mandatory technical criteria, Canada will request that the Offeror perform a Data Validation Test with a system of the type proposed for purchase to validate performance claims and compliance with the requirements before issuing the contract. The Offeror must send the system to the identified CSC location where the Data Validation tests will be conducted at a mutually agreed upon date and time. The system must be made available within fifteen (15) calendar days after notification of compliant offer. Only one Data Validation test will be performed per compliant system; CSC personnel must be able to observe and direct the testing. The Data Validation Testing Grid is provided below.

Test results from the Data Validation test will be used to confirm compliance of some requirements. Failure to demonstrate compliance will result in the Offer being declared non-compliant.

The Offeror will be responsible for all costs related to providing the AGIDS and required personnel to setup, operate and test the AGIDS at the location in Canada to be determined by CSC. CSC will be covering costs related to the site to be used (if any) as well as providing drone flights CSC will be responsible for all travel and living expenses for its personnel attending the Testing.

INSERT: *Evaluation Criteria and Evaluation Procedures*

Data validation testing

For the top 3 lowest technically compliant offers meeting the mandatory technical criteria, Canada will request that the Offeror perform a Data Validation Test with a system of the type proposed for purchase to validate performance claims and compliance with the requirements before issuing the contract. The Offeror must send the system to the identified CSC location where the Data Validation tests will be conducted at a mutually agreed upon date and time. The system must be made available within fifteen (15) calendar days after notification of compliant offer. Only one Data Validation test will be performed per compliant system; CSC personnel must be able to observe and direct the testing. The Data Validation Testing Grid is provided below.

Test results from the Data Validation test will be used to confirm compliance of some requirements. In the event of a failure, the bidder will have 48 hours to address it. Failure to demonstrate compliance after that will result in the Offer being declared non-compliant.

The Offeror will be responsible for all costs related to providing the AGIDS and required personnel to setup, operate and test the AGIDS at the Alma. CSC will be covering costs related to the site to be used (if any) as well as providing drone flights CSC will be responsible for all travel and living expenses for its personnel attending the Testing.

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All other terms and conditions remain unchanged.