

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
**Bid Receiving - PWGSC / Réception des**  
**soumissions - TPSGC**  
**11 Laurier St. / 11, rue Laurier**  
**Place du Portage, Phase III**  
**Core 0B2 / Noyau 0B2**  
**Gatineau, Québec K1A 0S5**  
**Bid Fax: (819) 997-9776**

**REQUEST FOR PROPOSAL**  
**DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government  
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services  
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

**Comments - Commentaires**

<b>Title - Sujet</b> Lansdowne Server replacement(CCTV)	
<b>Solicitation No. - N° de l'invitation</b> 47419-153363/A	<b>Date</b> 2015-02-11
<b>Client Reference No. - N° de référence du client</b> 1000323363	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HN-461-66749	
<b>File No. - N° de dossier</b> hn461.47419-153363	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2015-03-26</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Daylight Saving Time EDT	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Hallman, Patti	<b>Buyer Id - Id de l'acheteur</b> hn461
<b>Telephone No. - N° de téléphone</b> (819) 956-7390 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>  Specified Herein Précisé dans les présentes	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Vendor/Firm Name and Address**

**Raison sociale et adresse du  
fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**

Electrical & Electronics Products Division  
11 Laurier St./11, rue Laurier  
7B3, Place du Portage, Phase III  
Gatineau, Québec K1A 0S5

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

Solicitation No. - N° de l'invitation

47419-153363/A

Amd. No. - N° de la modif.

File No. - N° du dossier

hn46147419-153363

Buyer ID - Id de l'acheteur

hn461

Client Ref. No. - N° de réf. du client

1000323363

CCC No./N° CCC - FMS No/ N° VME

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## **PART 1 - GENERAL INFORMATION**

### **1. Security Requirement**

There is a security requirement associated with the requirement. For additional information, consult Part 4 - Evaluation Procedures and Basis of Selection, and Part 6 - Resulting Contract Clauses.

### **2. Requirement**

Canada Border Services Agency has a requirement for the supply, installation and configuration of a video storage server at the Lansdowne port of entry located at 1000 Island Bridge.

#### **2.1 Delivery Requirement**

Delivery and installation is requested to be completed by March 31, 2015.

### **3. Debriefings**

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

### **4. Trade Agreements**

"The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT)."

## PART 2 - BIDDER INSTRUCTIONS

### 1. Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The [2003](#) (2014-09-25) Standard Instructions - Goods or Services - Competitive Requirements, Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: sixty (60) days

Insert: ninety (90) calendar days

#### 1.1 SACC Manual Clauses

SACC Reference	Section	Date
<a href="#">A9033T</a>	Financial Capability	2012-07-16
<a href="#">B1000T</a>	Condition of Material	2014-06-26

### 2. Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

Due to the nature of the bid solicitation, bids transmitted by facsimile to PWGSC will not be accepted.

### 3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than ten (10) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies

to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

#### **4. Applicable Laws**

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the bidders.

#### **5. Mandatory Site Visit**

It is mandatory that the Bidder or a representative of the Bidder visit the work site. Arrangements have been made for site visits to be held on **February 19, 2015 at 10 a.m.** **Interested Bidders shall meet at the Principal Entrance of CBSA Lansdowne Port of Entry, 860 Hwy 137, Lansdowne ON, K0E 1L0.** Bidders will be required to sign an attendance form at each site visit. Bidders should confirm in their bids that they have attended the site visit. Bidders who do not attend the site visit will not be given an alternative appointment and their bids will be rejected as non-compliant.

The onus is on the bidders to arrive at the site visit in a timely manner. **Bidders arriving late may not be permitted to attend the site visit.**

The Bidder must have at least one attendee at the site visit.

Bidders should submit in writing to the Contracting Authority, a list of issues that they wish to table and the language they would like to address questions and answers, no later than five (5) calendar days prior to the scheduled site visit.

Bidders are advised that any clarifications or changes resulting from the site visit shall be included as an amendment to the bid solicitation document through [buyandsell.gc.ca](http://buyandsell.gc.ca).

As proof of attendance, the Bidder must sign the attendance form provided by the CBSA representative at the site visit.

## PART 3 - BID PREPARATION INSTRUCTIONS

### 1. Bid Preparation Instructions

Canada requests that bidders provide their bid in separately bound sections as follows:

- Section I: Technical Bid ( 3 hard copies)
- Section II: Financial Bid ( 1 hard copy)
- Section III: Certifications (1 hard copy)
- Section IV: Additional Information (1 hard copy)

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

Canada requests that bidders follow the format instructions described below in the preparation of their bid:

- a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders are encouraged to:

- 1) use paper containing fibre certified as originating from a sustainably-managed forest and/or containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

#### **Section I: Technical Bid**

In their technical bid, bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

#### **Section II: Financial Bid**

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Applicable Taxes must be shown separately.

#### **1.1 Payment of Invoices by Credit Card**

Canada requests that bidders complete one of the following:

- ( ) Government of Canada Acquisition Cards (credit cards) will be accepted for payment of invoices.

The following credit card(s) are accepted:

- ( ) VISA
- ( ) MasterCard

**OR**

- ( ) Government of Canada Acquisition Cards (credit cards) will not be accepted for payment of invoices.

The Bidder is not obligated to accept payment by credit card.

Acceptance of credit cards for payment of invoices will not be considered as an evaluation criterion.

### **1.2 Exchange Rate Fluctuation**

The requirement does not offer exchange rate fluctuation risk mitigation. Requests for exchange rate fluctuation risk mitigation will not be considered. All bids including such provision will render the bid non-responsive.

## **Section III: Certifications**

### **1.3 Certifications**

Bidders must submit the certifications required under Part 5.

## **Section IV: Additional Information**

### **1.4 Additional Information**

#### **1.4.1 Delivery Offered**

While delivery is requested as indicated above, the best delivery that could be offered is \_\_\_\_\_.

The completed installation date is \_\_\_\_\_ weeks after delivery of goods.

#### **1.4.2 Contractor Representatives**

Name and telephone number of the person responsible for:

#### **General enquiries**

Name: \_\_\_\_\_  
Telephone: \_\_\_\_\_ Facsimile: \_\_\_\_\_  
E-mail: \_\_\_\_\_

#### **Delivery follow-up**

Name: \_\_\_\_\_  
Telephone: \_\_\_\_\_ Facsimile: \_\_\_\_\_  
E-mail: \_\_\_\_\_

### **1.4.3 ENVIRONMENTAL CRITERIA**

The Bidder must complete Attachment 2 by inserting a checkmark next to every criteria that are met. Bidders are requested to submit Attachment 2 with their bid. As this is a new procedure, Canada reserves the right to request Attachment 2 after bid closing. The Contracting Authority will inform the Bidder of a time frame within which to provide it. Failure to provide Attachment 2 within the required time frame will render the bid non-responsive.

## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

### **1. Evaluation Procedures**

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

#### **Evaluation Criteria**

All bids must be completed in full and provide all of the information requested in the bid solicitation to enable full and complete evaluation.

#### **1.1 Technical Evaluation**

##### **1.1.1 Mandatory Technical Criteria**

The following Mandatory technical requirements must be submitted with the bid for evaluation

- Technical compliance to Attachment 1 – Mandatory Technical Criteria

#### **1.2 Financial Evaluation**

The following Mandatory financial requirement must be submitted with the bid for evaluation

- Completion of Annex B – Basis of Payment

##### **1.2.1 Pricing Basis**

The bidder must quote firm lot prices in Canadian dollars, DDP Delivered Duty Paid (destination), Applicable Taxes extra, as applicable. Freight charges to destination and all applicable Custom duties and Excise taxes must be included

### **2. Basis of Selection**

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated price on an aggregate basis will be recommended for award of a contract.

### **3. Security Requirement**

1. Before award of a contract, the following conditions must be met:
  - a. the Bidder must hold a valid organization security clearance as indicated in Part 6 - Resulting Contract Clauses;
  - b. the Bidder's proposed individuals requiring access to classified or protected information, assets or sensitive work site(s) must meet the security requirement as indicated in Part 6 - Resulting Contract Clauses;

- c. the Bidder must provide the name of all individuals who will require access to classified or protected information, assets or sensitive work sites.
2. Canada will not delay the award of any contract to allow bidders to obtain the required clearance.
3. For additional information on security requirements, bidders should consult the “[Security Requirements for PWGSC Bid Solicitations - Instructions for Bidders](#)” (<http://www.tpsgc-pwgsc.gc.ca/app-acq/lc-pl/lc-pl-eng.html#a31>) document on the Departmental Standard Procurement Documents Website.

## PART 5 - CERTIFICATIONS

Bidders must provide the required certifications and documentation to be awarded a contract.

The certifications provided by bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default, if any certification made by the Bidder is found to be untrue whether during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with this request will also render the bid non-responsive or will constitute a default under the Contract.

### 1. Mandatory Certifications Required Precedent to Contract Award

#### 1.1 Code of Conduct and Certifications - Related documentation

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions [2003](#) . The related documentation therein required will assist Canada in confirming that the certifications are true.

#### 1.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "[FCP Limited Eligibility to Bid](#)" list ([http://www.labour.gc.ca/eng/standards\\_equality/eq/emp/fcp/list/inelig.shtml](http://www.labour.gc.ca/eng/standards_equality/eq/emp/fcp/list/inelig.shtml)) available from [Human Resources and Skills Development Canada \(HRSDC\) - Labour's](#) website.

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](#)" list at the time of contract award.

#### 1.3 General Environmental Criteria Certification

By submitting the bid, the bidder certifies that the information submitted in the General Environmental Criteria table found at Attachment 2 is accurate and complete.

By submitting the bid the Bidder certifies that it meets, and will continue to meet throughout the duration of any resulting contract, a minimum of four out of seven requirements identified in the General Environmental Criteria Table found at Attachment 2;

---

Signature

---

Date

## PART 6 - RESULTING CONTRACT CLAUSES

### 1. Security Requirement

- 1.1 The following security requirement (SRCL and related clauses) applies and form part of the Contract.

The Contractor must, at all times during the performance of the Contract, hold a valid Designated Organization Screening (DOS), issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC).

The Contractor personnel requiring access to sensitive work site(s) must EACH hold a valid RELIABILITY STATUS, granted or approved by CISD/PWGSC.

Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of CISD/PWGSC.

The Contractor must comply with the provisions of the:

- (a) Security Requirements Check List and security guide (if applicable), attached at Annex C;
- (b) Industrial Security Manual (Latest Edition).

### 2. Requirement

The contractor must provide the goods and services in accordance with the technical requirements stated herein at Annex A.

#### 2.1 SACC Manual Clauses

SACC Reference	Section	Date
<a href="#">B1501C</a>	Electrical Equipment	2006-06-16
<a href="#">B7500C</a>	Excess Goods	2006-06-16

#### 2.2 Optional Services

The Contractor grants to Canada the irrevocable option to acquire the following services described in Annex A and Annex B of the Contract under the same conditions and at the prices stated in the Contract.

Option 1 – One (1) additional 12 months warranty, to be exercised prior to initial 24 month warranty expiring.

Option 2 – Year 2 of annual maintenance, to be exercised prior to first 12 month maintenance expiring

Option 3 – Year 3 of annual maintenance, to be exercised prior to the second year of maintenance expiring.

The options may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, in whole or in part, through a contract amendment.

The Contracting Authority may exercise the option at any time before the expiry of the Contract by sending a written notice to the Contractor.

### **3. Standard Clauses and Conditions**

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual(<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

#### **3.1 General Conditions**

[2010A](#) (2014-11-27), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

#### **3.2 Warranty Period**

Section 09 of general conditions 2010A (2014-11-27) is amended by replacing the period of twelve (12) months by twenty-four (24) months.

All other provisions of the warranty section remain in effect.

### **4. Term of Contract**

#### **4.1 Delivery Date**

All the deliverables must be received on or before \_\_\_\_\_ (Delivery as offered and as accepted will be inserted at contract award).

### **5. Authorities**

#### **5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Patti Hallman – Supply Team Leader  
Public Works and Government Services Canada - Acquisitions Branch  
Logistics, Electrical, Fuel and Transportation Directorate - "HN" Division  
7B3, Place du Portage, Phase III, 11 Laurier Street, Gatineau, QC, K1A 0S5  
Telephone: (819) 956-7390 Facsimile: (819) 953-4944  
E-mail address: [patti.hallman@pwgsc-tpsgc.gc.ca](mailto:patti.hallman@pwgsc-tpsgc.gc.ca)

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

#### **5.2 Contractor's Representative**

Name and telephone number of the person responsible for:

### **General Enquiries**

Name: will be inserted at contract  
Telephone: will be inserted at contract  
Facsimile: will be inserted at contract  
E-mail: will be inserted at contract

### **Delivery Follow-up**

Name: will be inserted at contract  
Telephone: will be inserted at contract  
Facsimile: will be inserted at contract  
E-mail: will be inserted at contract

## **6. Payment**

### **6.1 Basis of Payment**

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm lot prices, as specified in Annex B. Customs duties are included and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

### **6.2 Limitation of Price**

SACC Manual clause [C6000C](#) (2011-05-16) Limitation of Price

### **6.3 Multiple Payments**

SACC Manual clause [H1001C](#) (2008-05-12) Multiple Payments

### **6.4 SACC Manual Clauses**

<b>SACC Reference</b>	<b>Section</b>	<b>Date</b>
<a href="#">G1005C</a>	Insurance	2008-05-12

## **7. Invoicing Instructions**

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:

(a) The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.

### **7.1 Payment of Invoices by Credit Card**

The credit card \_\_\_\_\_ is accepted.

## **8. Certifications**

### **8.1 Compliance**

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

## **9. Applicable Laws**

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in \_\_\_\_\_. *(Insert the name of the province or territory as specified by the Bidder in its bid, if applicable)*

## **10. Priority of Documents**

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- a. the Articles of Agreement;
- b. [2010A](#) (2014-11-27) General Conditions – Goods (Medium Complexity);
- c. Annex A, Requirement;
- d. Annex B, Basis of Payment
- e. Annex C, Security Requirements Check List
- f. the Contractor's bid dated \_\_\_\_\_ *(insert date of bid) (If the bid was clarified or amended, insert at the time of contract award: “, as clarified on \_\_\_\_\_” or “, as amended on \_\_\_\_\_” and insert date(s) of clarification(s) or amendment(s))*

## **11. Shipping Instructions - Delivery at Destination**

Goods must be consigned to the destination specified in the Contract and Delivered Duty Paid (DDP) \_\_\_\_\_ (insert the named place of destination). Inco terms 2000 for shipments from a commercial contractor.

**ATTACHMENT 1**

**MANDATORY TECHNICAL EVALUATION CRITERIA**

**Bidders must demonstrate in their bid technical compliance to the following technical requirements**

- 1) Milestone Certification – Bidder must provide a copy of the certificate received from Milestone demonstrating that they are certified to install and work with their software platform.**
- 2) Technical Specifications and Requirements as detailed in the following tables:**

**General Server Specifications**

<b>Item</b>	<b>Description</b>	<b>Compliant Y/N</b>	<b>Bid Reference Drawing number Page number Response</b>
<b>General</b>	<p>The following servers must be provided:</p> <ul style="list-style-type: none"> <li>• 1 X Management Server / Recording Failover Server</li> <li>• 1 X Video Recording Servers</li> </ul> <p>- A single server hosts both the management application and the recording failover application. Video recording for all cameras should be done on the Video Recording Servers. In the event of machine failure of a Video Recording Server, all cameras from that server must switch to record on the Recording Failover Server.</p> <p>- This list does not include networking equipment such as switches. UPS equipment is specified separately in the UPS section. The detailed specifications for each type of server are in the Management Server /</p>		

	Recording Server Failover section and in the Video Recording Server sections.		
<b>Recording/Retention</b>	<ul style="list-style-type: none"> <li>- All cameras must be configured by default to record 24/7 continuously at the minimum specified resolution and frame rate for each camera type. The minimum frame rate for recording is 15 FPS, unless otherwise specified. Recording on motion should not be configured unless otherwise specified.</li> <li>- The retention time of all camera footage must be at least 45 days.</li> </ul>		
<b>Write Failover</b>	<ul style="list-style-type: none"> <li>- The video surveillance system must continue to record all camera footage in the event of a Video Recording Server failure.</li> <li>- In the event of a machine failure of a Video Recording Server, the Management Server / Recording Failover Server must be configured to takeover recording. The Recording Failover Server must provide a minimum of 5 days or 3TB usable of storage (whichever is larger). Live and archived video associated with the Recording Failover Server must be accessible at all times.</li> <li>- The management software and the failover software must reside on the same physical machine. RAID 5 is required for video failover storage, and RAID 6 is required for primary video storage. RAID 1 is required for all OS/Application drives.</li> <li>- Redundant storage of recorded video on multiple servers is not required.</li> </ul>		

### Storage Capacity Specifications

Item	Description	Compliant Y/N	Bid Reference Drawing number Page number Response
Total storage capacity for 45 days for all cameras	27.3 TB usable		
Storage Capacity per recording server (x1), for 45 days	28 TB usable		
Drive number on each recording server, RAID-6 (3 TB)	9 drives x 4 TB RAID-6		
Storage Capacity for the recording Failover server (x1), for 5 days	3 TB usable		
Drive number on each recording failover server, RAID-5 (2 TB)	2 drives x 3 TB RAID-5		

### Management / Failover Server Requirements

Item	Description	Compliant Y/N	Bid Reference Drawing number Page number Response
<b>Form Factor</b>	Rackmount Sliding rails with cable management arm.		
<b>Processor</b>	Number of Processors Required	2	
	Cores	6 or more	
	Clock Speed	2.1 GHz or higher	
	Instruction Set	64-bit	
<b>Motherboard</b>	Processor such as Intel Xeon E5-2620 v2 or better.		
<b>Memory</b>	Supports Dual Socket		
<b>RAID Controller</b>	<ul style="list-style-type: none"> <li>- 12 GB RDIMM or higher</li> <li>- RAID 1 System + RAID 5 Storage</li> <li>- 512 MB Battery Backed Cache or higher</li> </ul>		
<b>System/Application Drives</b>	<ul style="list-style-type: none"> <li>- Minimum of two (2) 2.5" or 3.5" drives must be present.</li> <li>- The drives must be RAID 1 managed.</li> <li>- The total usable capacity after RAID must be 300 GB or higher. 10K RPM or better.</li> </ul>		

<p><b>Recording Drives</b></p>	<ul style="list-style-type: none"> <li>- The total usable capacity after RAID must be three (3) TB or higher.</li> <li>- The storage must be RAID-5 managed</li> <li>- Minimum of two (2) 3.5" 3 TB hot swappable drives must be present.</li> <li>- Minimum of two (2) empty additional 3.5" hot swappable bays for future expansion must be present. 7.2K RPM or better</li> <li>- SAS or better</li> </ul>		
<p><b>Power Supply</b></p>	<ul style="list-style-type: none"> <li>- Must have dual, hot-plug redundant power supplies.</li> </ul>		
<p><b>OS</b></p>	<ul style="list-style-type: none"> <li>- Must have Microsoft Windows Server 2012 x64 Standard or Data Center installed.</li> </ul>		
	<ul style="list-style-type: none"> <li>- Server must be Certified for Windows by Microsoft for the version of OS installed.</li> </ul>		
<p><b>Network</b></p>	<ul style="list-style-type: none"> <li>- Must have dual Gigabit Ethernet Connections.</li> </ul>		
<p><b>Software</b></p>	<ul style="list-style-type: none"> <li>- Video Management and Failover Application must be stored on this server.</li> <li>- Must have Microsoft SQL Server Express installed.</li> <li>- The software must support the version of OS</li> </ul>		

## General Camera Requirements

Item	Description	Compliant Y/N	Bid Reference Drawing number Page number Response
<b>Open Architecture</b>	<ul style="list-style-type: none"> <li>• Cameras must be IP</li> <li>• Cameras must support ONVIF profile S</li> </ul>		
<b>Video</b>	<p>Camera must support the following video settings:</p> <ul style="list-style-type: none"> <li>• Multiple compression formats, including but not limited to H.264 and MJPEG.</li> <li>• Camera must be able to output at least two video streams simultaneously and must also support simultaneous streaming of multiple formats.</li> <li>• Frame rate must be controllable for each stream.</li> </ul>		
<b>Power</b>	<ul style="list-style-type: none"> <li>• Camera must be POE or High POE compatible.</li> </ul>		
<b>Audio</b>	<ul style="list-style-type: none"> <li>• Camera must have at least one audio input port that uses a standard 3.5mm plug, so that a microphone may be connected to the camera to receive audio.</li> <li>• Pan-Tilt-Zoom (PTZ) cameras and license plate capture cameras are excluded from the requirement for an audio input port.</li> <li>• All cameras which are audio capable must have audio capability disabled from the camera or video management software (VMS), unless otherwise noted.</li> </ul>		
<b>Exposure Settings</b>	<ul style="list-style-type: none"> <li>• Must be configurable for different lighting conditions such as shutter speed, and gain.</li> <li>• Must allow an automatic compensation of the image level with regard to the lighting conditions variations</li> </ul>		
<b>Enclosure</b>	<ul style="list-style-type: none"> <li>• Cameras must be contained in housing and securely mounted.</li> </ul>		

<p><b>Setting Specifications</b></p>	<ul style="list-style-type: none"> <li>• Live viewing at 20FPS</li> <li>• Recording at 15 FPS</li> <li>• Stream H.264 must be used</li> <li>• Set AGC gain control to auto.</li> <li>• Set <i>Shutter speed</i> control to auto (with a limit of 1/30s shutter speed in low light)</li> <li>• IR Cut Filter must be always on mode auto day/night</li> <li>• White balance must be set to "Automated".</li> <li>• WDR must be always "ON".</li> <li>• Compression rate must be set in order to have good image quality.</li> <li>• Field of view compliant with the camera coverage requirements</li> </ul>		
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### Outdoor PTZ Camera

Item	Description	Compliant Y/N	Bid Reference Drawing number Page number Response
<b>Resolution</b>	Must have at least a 1280 X 720 image resolution.		
<b>Focus</b>	Must have auto focus		
<b>Field of View</b>	Must provide at least a 45 degree horizontal field of view.		
<b>Optical Zoom</b>	The PTZ camera must support at least 10X optical zoom.		
<b>Range of Motion</b>	Must have a pan range of at least 350 degrees and have a tilt range of at least 90 degrees.		
<b>Frames Per Second</b>	Must support at least 20 frames per second at the minimum resolution specified above.		
<b>Environment</b>	Camera assembly must provide protection against dust and condensation. Rated IP 65 or better. A custom enclosure may be provided but should be expressly noted.		

**Indoor Tamper Resistant**

Item	Description	Compliant Y/N	Bid Reference Drawing number Page number Response
Resolution	Camera must have a minimum of 3 megapixel image resolution.		
Zoom	The camera must support at least a 2X optical zoom.		
Focus	Must have remote focus such as auto focus or auto back focus.		
Field of View	Must provide a range at between 50 and 100 degree horizontal field of view.		
Frames Per Second	Camera must support at least 15 frames per second at the minimum resolution specified above.		
Night Capability	The camera must be a true Day/Night camera with a mechanical IR cut filter.		
Environment	Camera assembly must provide protection against dust. A custom enclosure may be provided so that a camera can operate within this requirement. Must be rated IP51 or greater.		
Enclosure	Camera must be contained in housing and securely mounted in order to be resistant to tampering. Cameras which are not dome cameras require external enclosures.		

## UPS

Item	Description	Compliant Y/N	Bid Reference Drawing number Page number Response
<b>Form Factor</b>	<ul style="list-style-type: none"> <li>- Rack mount</li> </ul>		
<b>Power Rating</b>	<ul style="list-style-type: none"> <li>- An uninterruptible power supply (UPS) must be able to supply servers, the associated switches and all critical accessories embedded.</li> </ul>		
<b>Power runtime</b>	<ul style="list-style-type: none"> <li>- The uninterruptible power supply (UPS) must be able to supply a minimum of <b>20 minutes</b> of power at full power capacity during a power outage.</li> </ul>		
<b>Soft Shutdown</b>	<ul style="list-style-type: none"> <li>- In the event of a power outage, the UPS are configured to initiate a safe shutdown of the servers based on battery capacity and/or time delay.</li> </ul>		
<b>Connectivity</b>	<ul style="list-style-type: none"> <li>- UPS must be connected to each server through a network interface in order to initiate the shutdown in case of power outage.</li> </ul>		
<b>Output Waveform</b>	<ul style="list-style-type: none"> <li>- True sine wave output</li> <li>- Output voltage distortion with less</li> </ul>		

	than or equal to 5% distortion at full load.		
<b>Topology</b>	- Must be a Double Conversion, On-Line UPS.		

### Workstations

Description	Compliant Y/N	Bid Reference Drawing number Page number Response
1. The operating system must be Windows 7 Professional (32 bit or 64 bit*), Windows 7 Enterprise (32 bit or 64 bit*) or Windows 7 Ultimate (32 bit or 64 bit*). * Running as a 32 bit application.		
2. The CPU must be Intel Core-i7, 4 cores.		
3. A minimum of 8 GB of RAM must be installed.		
4. The graphics adapter must be able to support the recommended resolution of 1920 x 1080.		
5. A DVI or HDMI connection from the monitor to the workstation is required.		
6. The connection media between the monitors and the workstations must be done through HDMI.		

		<p>7. Minimum 1 TB SATA hard drive (7200 RPM SATA 3.0 GB/S) must be installed and partitioned as follow: one partition with minimum 250 GB for Operating System files and one partition with minimum 750 MB to store exported video.</p>
		<p>8. SATA SuperMulti DVD writer</p>
		<p>9. Software: Microsoft .NET 4.0 Framework, DirectX 9.0 or newer must be installed.</p>
		<p>10. Monitor resolution: Monitor must have a 1920 X 1080 image resolution.</p>
		<p>11. 40 inch monitor must be equivalent or better to a <i>Samsung SMT4023</i>.</p>
		<p>12. 24 inch monitor must be equivalent or better to a HP Compaq LA2405wg.</p>

## Enclosure

Item	Description	Compliant Y/N	Bid Reference Drawing number Page number Response
<b>Standard</b>	The enclosure must be compliant with approved safety standards for use in Canada.		
<b>Function</b>	The enclosure must be able to contain all servers, the UPS, gateways and switch (es) of the CCTV system.		
<b>Form Factor</b>	The enclosure must be a Network Rack type.		
	The enclosure must be a <i>4 Post Open Server Equipment Rack Enclosure</i> type.		
	The enclosure must have vertical Wire Managers.		
<b>Size</b>	The enclosure must have solid panels on the sides and vented panel at the rear and front door so that there is no unauthorized access to the embedded equipment.		
	The enclosure must be a « Rackmount » standard <b>with</b> a width of 19 inches		

		<p>The <b>depth</b> of the enclosure must be sufficient to contain all the CCTV system equipment including all servers, UPS, gateway, the network switch (es).</p>	
		<p>The <b>usable height</b> of the enclosure must be sufficient to contain all the CCTV system equipment including all servers, UPS, gateway, and the network switch and must be less or equal than 14U height.</p>	
<b>Knockouts</b>		<p>The enclosure must have electrical knockouts on removable rear panel at the top and bottom.</p>	
<b>Lock</b>		<p>The enclosure must have a front door that can be locked by key.</p>	
<b>Ventilation</b>		<p>The enclosure must have vented panels on top and rear and /or side panel (s).</p>	
		<p>The enclosure must have at least one (1) fan.</p>	
<b>Stability of the enclosure</b>		<p>The enclosure must <b>not</b> have wheels installed.</p>	

## ATTACHMENT 2

### General Environmental Criteria

**The Contractor must meet and continue to meet four out of seven criterions during the entire duration of the contract.**

<b>Green practices within supplier's organization:</b>	<b>Insert a checkmark for each criteria that is met</b>
Promotes a paperless environment through directives, procedures and/or programs.	
All documents are printed double sided and in black and white for day to day business activity unless otherwise specified by your client.	
Paper used for day to day business activity has a minimum of 30% recycled content and has a sustainable forestry management certification.	
Utilizes environmentally preferable inks and purchase remanufactured ink cartridges or ink cartridges that can be returned to the manufacturer for reuse and recycling for day to day business activity.	
Recycling bins for paper, newsprint, plastic and aluminum containers available and emptied regularly in accordance with local recycling program.	
A minimum of 50% of office equipment has an energy efficient certification.	
Registered to ISO 14001 or has an equivalent environmental management system in place	

**ANNEX A**  
**REQUIREMENT**  
**VIDEO MONITORING SYSTEM**

### **Objective**

This requirement is for the supply, installation and configuration of a video storage server at the Lansdowne port of entry located at 1000 Island Bridge. The current recording infrastructure in place no longer supports operational requirements and needs to be replaced.

### **Scope**

Provide backbone infrastructure required to support the current monitoring system and replace end of life cycle devices.

### **Notice**

- All hardware and software provided must be supported and compatible with the latest Milestone XProtect® Corporate Video Management Software.
- The supply of any hardware and software that is not recommended in this document (ex: different camera types, server, etc.) must be submitted and approved by the CBSA Science and Engineering Laboratory prior to installation. The cabling to the new cameras identified in this requirement may or may not be provided. It will be confirmed during the site visit.

### **Tasks**

1. Supply and install a functional network infrastructure in compliance with each manufacturer's installation guidelines, complete with all required parts, components, systems, software and accessories as specified in the project's documents.
2. Installation, connection, programming and verification of all new devices are in accordance to CBSA's technical and operational requirements.
3. Provide infrastructure that meets or exceeds all criteria and specifications stated in Section 2- Technical Requirements.
4. Stack and wrap on a skid for disposal all infrastructure that is removed and/or replaced.

Return to CBSA any components that stores data must be returned to CBSA (i.e.; hard drives)  
Infrastructure

### **Cameras**

1. All cameras must be in accordance with Section 2 – Table 4 – General Camera Requirements as well as with their respective tables indicated in Section 2 – Table 6 – New Camera Schedule.

2. There are currently thirty three (33) cameras on the system. Refer to Section 2 – Table 4 – Current Camera Schedule.
3. Five (5) replacement cameras are to be installed according to Section 2 – Table 6 – New Camera Schedule.
4. The new system will be comprised of thirty eight (38) cameras.
5. All thirty eight (38) cameras must have the latest firmware installed for that device.
6. Where applicable, interior cameras must be recessed into the ceiling. Only the dome portion of the camera should be seen.
7. All outdoor cameras and enclosures must have a weather operating range of -40°C to 50°C, resistant to humidity and ice.

### Network, Wiring, and Cabling

1. All cabling to connect interior network devices (workstations, cameras, switches, etc.) must be CAT-6 cabling.
  - 1.1. Exterior devices must use CAT-6 insulated cabling unless otherwise mentioned.
2. The supplied CAT-6 insulated cable must have an operating range of – 40° C to + 50° C and be resistant to temperature changes.
3. All CAT-6 cabling must be terminated with RJ-45 connectors at both ends.
4. All CAT-6 cabling must be labeled 1” from both ends with the camera numbers that are provided by the CBSA. The label must be done with a label maker or numbered stickers. Hand-written labels will not be accepted.
5. The contractor must supply and install the required cabling, including low voltage power cable where required and electrical source to all designated equipment.
6. The infrastructure backbone of the system provided must be optimized to provide smooth, high quality, clear video images to the server and workstations.
7. A Fortigate 80-C unit must be supplied and installed in the server cabinet to allow remote viewing.
  - 7.1. Configuration of the Fortigate 80-C unit will be done by CBSA.
8. A uninterruptible power supply (UPS) must be supplied, installed and configured at the server according to the requirements in Section 2 – Table 9 – UPS.
9. A commercial-grade surge suppressor with minimum of 600 joules rating must be supplied and installed at the server and at each workstation to protect against voltage spikes.

## Storage Server

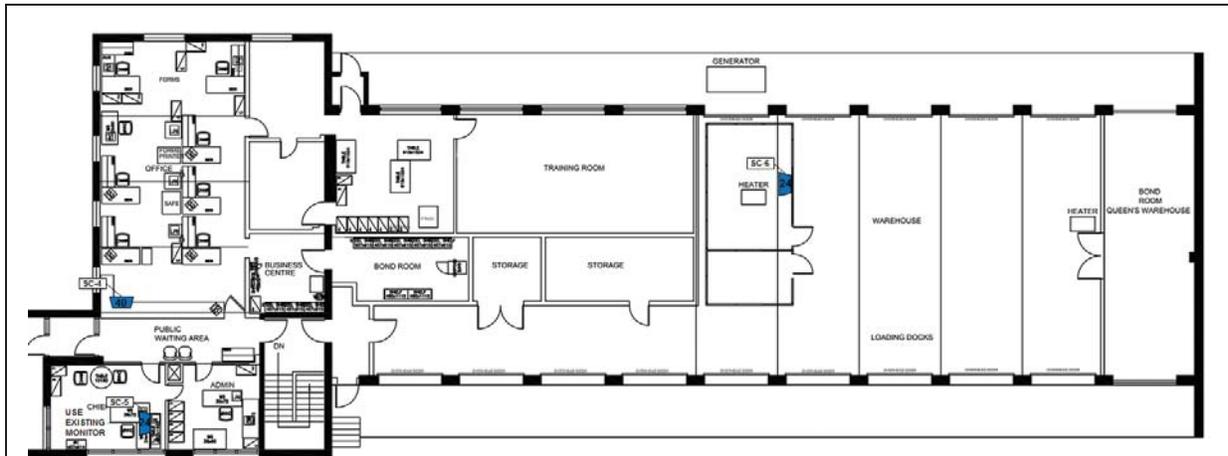
1. The storage server must meet or exceed the requirements in Table 1 – General Server Specifications and be supported by the Milestone XProtect® Corporate version provided.
2. The storage server must ensure optimal performance for forty (40) cameras which includes but is not limited to live, video and playback.
3. The server cabinet must be provided by the contractor according to the requirements identified in Section 2 – Table 11 - Enclosure

## Workstations

1. All workstations must meet or exceed the requirements identified in Section 2 – Table 10 – Workstations unless otherwise mentioned.



Identifier	Location	Monitor	Notes
SC-1	Immigration Office	Provided by CBSA	Desktop
SC-2	Customer Service Desk	40	Mount that permits tilt, extend and swivel
SC-3	Superintendent Office	Provided by CBSA	Desktop



Identifier	Location	Monitor	Notes
SC-4	Public Waiting Area	40	Mount that permits tilt, extend and swivel
SC-5	Chief of Operations	Provided by CBSA	Desktop
SC-6	Commercial Office	Provided by CBSA	Desktop

2. The exact location of the workstations in their respective rooms will be determined during the site visit.

### Video Management System (VMS)

1. The VMS must use the most recent version of Milestone XProtect® Corporate.
2. NTP time server must be installed on the system in order to ensure that the time synchronization of the server and all the workstations is identical.

### Deliverables

1. At commissioning, the contractor will provide two (2) hard and two (2) soft (.PDF) copies of Operations and Maintenance (O & M) Manuals in English for each system provided under this contract. This includes data for each type of product and features and operating sequences, both automatic and manual.
2. The operational and maintenance manual should include all manufacturer recommended equipment maintenance requirements, with a complete description of all maintenance procedures required on all installed equipment including time intervals (hour usage), required inspection, periodic maintenance, fault diagnosis and repair/replacement of parts/components.
3. Installation guide, system documentation, system structure and setup information must be provided to the CBSA upon project completion and final approval.

4. The contractor will provide a MS EXCEL spreadsheet which will display each component (physical or virtual), the IP address and its location within the site. upon project completion and final approval

**4.1. CBSA will provide a list of camera IPs to use during the system configuration.**

5. Documentation can be copied and distributed within the CBSA without restriction.
6. All documentation and training material provided (hard and soft copy) must be created in English and using the MS Office Suite of Products.
7. Provide one (1) spare hot swappable hard drive for server.
8. Provide a 1 TB external hard drive, equivalent or better to a Seagate Expansion 1 TB Portable Hard Drive to the CBSA. External hard drive should support USB 3.0.
9. Provide thirty eight (38) Milestone Device License Keys (DLKs).

## Constraints

1. The contractor must provide knowledge, labor, materials, tools, equipment and services to install equipment, devices and components required for a complete operational VMS.
2. Work may need to be done outside of regular CBSA working hours depending on CBSA operations. The contractor will be advised in earliest possible time if this is required.
3. All software updates must be completed onsite as remote connection will not be permitted.

## Compliance Verification Testing

1. The Contractor must perform compliance verification tests with the project/technical authority, prior to final delivery and acceptance of the system. The Contractor must provide personnel, equipment, instruments and other supplies to perform the test. The compliance test must demonstrate that the installed VMS components function and comply with the project technical expectation and specifications.
2. All physical and functional system requirements as detailed must be demonstrated as operable.

## Client Support

1. CBSA will provide the software license code for Milestone XProtect® Corporate.
2. CBSA will provide documentation upon availability relating to the current system.
3. CBSA will provide drawings with camera names / IP addresses.
4. CBSA will provide drawings of the existing camera system.

## Training

1. Two (2) training sessions of four (4) hours each must be provided using the installed system within one month after the installation acceptance of the completed system.
2. Training must be done by a certified Milestone representative.
3. Training must be provided at the customer site using the new system.
4. Training must be done at the workstations for the new system.
5. Training must be given in English.
6. Each training session is for up to five (5) people.
7. Training must take place between 0700 and 1700. A training schedule will be established with the CBSA prior to the sessions.
8. Training must be computer-based with practical examples. (video extraction, smart client fonctions, etc.)
9. Training documentation must be available to all trainees in English.

## Warranty, Maintenance and Service Level Agreement

1. The Warranty includes yearly maintenance of the CCTV System. The maintenance shall include the cleaning of all video system components such as but not limited to cameras, domes, server, switches, monitors, etc. (excluding cabling).
  - 1.1. The warranty agreement is for a period of 1 year with possible extension up to two (2) years.
  - 1.2. Maintenance must be completed at a minimum of two (2) times per year.
  - 1.3. Must include software updates on the system as part of the maintenance.
  - 1.4. Following any maintenance, the contractor must report in writing to the Technical Authority any deficiencies or problems found.
2. At a minimum during the warranty period, the contractor shall include on site repair and/or replacement of the defected components reported for any minor and major system failures. New components provided during this project will be warrantied at no extra cost to CBSA.
  - 2.1. A major system failure shall be defined as the failure of any operator controls as well as any system controller, server or communication link which renders more than 10% of a specific security subsystem of systems inoperative. The response time for any major system failure is three (3) calendar days from the time the contractor is informed.
  - 2.2. A minor system failure shall be defined as the failure of the feed of a single camera, workstation and monitor or the failure of a camera, workstation or monitor. Even though

spare cameras are provided, the response time for any minor system failure is five (5) calendar days from the time the contractor is informed.

3. Preventative and corrective maintenance performed by a maintenance contractor other than this contractor during the warranty period shall not void warranty on labor, hardware and software provided by this Contractor.

## Section 2 – Technical Requirements

**Table 1 – General Server Specifications**

<b>General</b>	<p>The following servers must be provided:</p> <ul style="list-style-type: none"> <li>• 1 X Management Server / Recording Failover Server</li> <li>• 1 X Video Recording Servers</li> </ul> <ul style="list-style-type: none"> <li>- A single server hosts both the management application and the recording failover application. Video recording for all cameras should be done on the Video Recording Servers. In the event of machine failure of a Video Recording Server, all cameras from that server must switch to record on the Recording Failover Server.</li> <li>- This list does not include networking equipment such as switches. UPS equipment is specified separately in the UPS section. The detailed specifications for each type of server are in the Management Server / Recording Server Failover section and in the Video Recording Server sections.</li> </ul>
<b>Recording/Retention</b>	<ul style="list-style-type: none"> <li>- All cameras must be configured by default to record 24/7 continuously at the minimum specified resolution and frame rate for each camera type. The minimum frame rate for recording is 15 FPS, unless otherwise specified. Recording on motion should not be configured unless otherwise specified.</li> <li>- The retention time of all camera footage must be at least 45 days.</li> </ul>
<b>Write Failover</b>	<ul style="list-style-type: none"> <li>- The video surveillance system must continue to record all camera footage in the event of a Video Recording Server failure.</li> <li>- In the event of a machine failure of a Video Recording Server, the Management Server / Recording Failover Server must be configured to takeover recording. The Recording Failover Server must provide a minimum of 5 days or 3TB usable of storage (whichever is larger). Live and archived video associated with the Recording Failover Server must be accessible at all times.</li> <li>- The management software and the failover software must reside on the same physical machine. RAID 5 is required for video failover storage, and RAID 6 is</li> </ul>

	<p>required for primary video storage. RAID 1 is required for all OS/Application drives.</p> <ul style="list-style-type: none"> <li>- Redundant storage of recorded video on multiple servers is not required.</li> </ul>
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## Table 2 – Storage Capacity Specifications

Total storage capacity for 45 days for all cameras	27.3 TB usable
Storage Capacity per recording server (x1), for 45 days	28 TB usable
Drive number on each recording server, RAID-6 (3 TB)	9 drives x 4 TB RAID-6
Storage Capacity for the recording Failover server (x1), for 5 days	3 TB usable
Drive number on each recording failover server, RAID-5 (2 TB)	2 drives x 3 TB RAID-5

## Table 3 – Management / Failover Server Requirements

All stated specifications are mandatory. The management application refers to the component of the video management system which contains configuration settings including product licensing, camera recording settings and user permissions. The management application is also responsible for user authentication as well as any logging. The failover application refers to the component of the video management system which takes over recording in the event of failure of the video storage server

<b>Form Factor</b>	Rackmount Sliding rails with cable management arm.	
<b>Processor</b>	Number of Processors Required	2
	Cores	6 or more
	Clock Speed	2.1 GHz or higher
	Instruction Set	64-bit
	Processor such as Intel Xeon E5-2620 v2 or better.	
<b>Motherboard</b>	Supports Dual Socket	
<b>Memory</b>	- 12 GB RDIMM or higher	
<b>RAID Controller</b>	<ul style="list-style-type: none"> <li>- RAID 1 System + RAID 5 Storage</li> <li>- 512 MB Battery Backed Cache or higher</li> </ul>	

<b>System/Application Drives</b>	<ul style="list-style-type: none"> <li>- Minimum of two (2) 2.5" or 3.5" drives must be present.</li> <li>- The drives must be RAID 1 managed.</li> <li>- The total usable capacity after RAID must be 300 GB or higher. 10K RPM or better.</li> <li>- SAS or better.</li> </ul>
<b>Recording Drives</b>	<ul style="list-style-type: none"> <li>- The total usable capacity after RAID must be three (3) TB or higher.</li> <li>- The storage must be RAID-5 managed</li> <li>- Minimum of two (2) 3.5" 3 TB hot swappable drives must be present.</li> <li>- Minimum of two (2) empty additional 3.5" hot swappable bays for future expansion must be present. 7.2K RPM or better</li> <li>- SAS or better</li> </ul>
<b>Power Supply</b>	<ul style="list-style-type: none"> <li>- Must have dual, hot-plug redundant power supplies.</li> </ul>
<b>OS</b>	<ul style="list-style-type: none"> <li>- Must have Microsoft Windows Server 2012 x64 Standard or Data Center installed.</li> </ul>
	<ul style="list-style-type: none"> <li>- Server must be Certified for Windows by Microsoft for the version of OS installed.</li> </ul>
<b>Network</b>	<ul style="list-style-type: none"> <li>- Must have dual Gigabit Ethernet Connections.</li> </ul>
<b>Software</b>	<ul style="list-style-type: none"> <li>- Video Management and Failover Application must be stored on this server.</li> <li>- Must have Microsoft SQL Server Express installed.</li> <li>- The software must support the version of OS installed.</li> </ul>
<b>Example</b>	Dell R720xd or equivalent configured with 2 X 300 GB SAS, 2 X 3 TB Near-Line SAS

**Table 4 – General Camera Requirements**

The general camera requirements apply to all cameras unless camera specifics are mentioned.

<b>Open Architecture</b>	<ul style="list-style-type: none"> <li>• Cameras must be IP</li> <li>• Cameras must support ONVIF profile S</li> </ul>
<b>Video</b>	<p>Camera must support the following video settings:</p> <ul style="list-style-type: none"> <li>• Multiple compression formats, including but not limited to H.264 and MJPEG.</li> <li>• Camera must be able to output at least two video streams simultaneously and must also support simultaneous streaming of multiple formats.</li> <li>• Frame rate must be controllable for each stream.</li> </ul>
<b>Power</b>	<ul style="list-style-type: none"> <li>• Camera must be POE or High POE compatible.</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>• Camera must have at least one audio input port that uses a standard 3.5mm plug, so that a microphone may be connected to the camera to receive audio.</li> </ul>

	<ul style="list-style-type: none"> <li>• Pan-Tilt-Zoom (PTZ) cameras and license plate capture cameras are excluded from the requirement for an audio input port.</li> <li>• All cameras which are audio capable must have audio capability disabled from the camera or video management software (VMS), unless otherwise noted.</li> </ul>
<b>Exposure Settings</b>	<ul style="list-style-type: none"> <li>• Must be configurable for different lighting conditions such as shutter speed, and gain.</li> <li>• Must allow an automatic compensation of the image level with regard to the lighting conditions variations</li> </ul>
<b>Enclosure</b>	<ul style="list-style-type: none"> <li>• Cameras must be contained in housing and securely mounted.</li> </ul>
<b>Setting Specifications</b>	<ul style="list-style-type: none"> <li>• Live viewing at 20FPS</li> <li>• Recording at 15 FPS</li> <li>• Stream <i>H.264</i> must be used</li> <li>• Set <i>AGC</i> gain control to auto.</li> <li>• Set <i>Shutter speed</i> control to auto</li> <li>• (with a limit of 1/30s shutter speed in low light)</li> <li>• IR Cut Filter must be always on mode auto day/night</li> <li>• White balance must be set to “Automated”.</li> <li>• WDR must be always “ON”.</li> <li>• Compression rate must be set in order to have good image quality.</li> <li>• Field of view compliant with the camera coverage requirements</li> </ul>

**Table 5 – Current Camera Locations**

Identifier	Location	Type	Recording	Working
1	PIL 1	FIX	YES	YES
2	PIL 2-1	FIX	YES	YES
3	PIL 2-2	FIX	YES	YES
4	PIL 3-1	FIX	NO	YES
5	PIL 3-2	FIX	NO	NO
6	PIL 4	FIX	NO	NO
7	PIL 5	FIX	NO	YES
8	PIL 6	FIX	NO	YES
9	PIL 7	FIX	NO	YES
10	CANOPY 1	FIX	NO	YES
11	CANOPY 2	FIX	NO	YES
12	CANOPY 3	FIX	NO	YES
13	CANOPY 4	FIX	NO	YES
14	SECONDARY 1	FIX	NO	YES
15	PRE-PIL	PTZ	NO	YES
16	EXPORT LANE	PTZ	NO	YES
17	SECONDARY 2	PTZ	NO	YES
18	COMPOUND EXIT	PTZ	NO	YES

19	PRIMARY/CDU	PTZ	NO	YES
20	TRAFFIC OFFICE	PTZ	NO	NO
21	LONG ROOM	PTZ	NO	YES
22	WAREHOUSE	PTZ	YES	YES
23	COMMERCIAL YARD	PTZ	YES	YES
24	CELL 1	FIX	YES	YES
25	CELL 2	FIX	YES	YES
26	PISTOL ROOM	FIX	YES	YES
27	COMMERCIAL COUNTER	FIX	YES	YES
28	EXPORT COUNTER	FIX	YES	YES
29	DRIVER'S ROOM	FIX	NO	YES
30	TRAFFIC OFFICE 2	PTZ	NO	YES
31	ARMING ROOM	FIX	NO	YES
32	GARAGE PTZ	PTZ	YES	YES
33	GARAGE	FIX	YES	YES

**Table 6 – Repair/Replacement Camera Location**

Identifier	Location	Type	Table	Status
1	Traffic – Immigration Counter	FIX	8	NEW
2	Traffic – Public Counter	FIX	8	NEW
3	Traffic – Floor 2 – Hallway	FIX	8	NEW
4	Exterior – NW Corner	FIX	8	REPLACE
5	Exterior – Public Entry	FIX	8	REPLACE
6	Exterior – PIL View	FIX	8	NEW
7	Exterior – Secondary View	PTZ	7	REPLACE
8	Exterior – SW Corner	PTZ	7	NEW
9	Exterior – Post PIL	FIX	8	REPLACE
10	Exterior – Pre PIL	FIX	8	REPLACE

Identifier #s from this Table are in relation to Section 3 – Site and Camera Layout.

**Table 7 – Outdoor PTZ Camera**

<b>Resolution</b>	Must have at least a 1280 X 720 image resolution.
<b>Focus</b>	Must have auto focus

<b>Field of View</b>	Must provide at least a 45 degree horizontal field of view.
<b>Optical Zoom</b>	The PTZ camera must support at least 10X optical zoom.
<b>Range of Motion</b>	Must have a pan range of at least 350 degrees and have a tilt range of at least 90 degrees.
<b>Frames Per Second</b>	Must support at least 20 frames per second at the minimum resolution specified above.
<b>Environment</b>	Camera assembly must provide protection against dust and condensation. Rated IP 65 or better. A custom enclosure may be provided but should be expressly noted.
	Camera must be equivalent or better than AXIS Q6045-E.

**Table 8 – Indoor Tamper Resistant**

Resolution	Camera must have a minimum of 3 megapixel image resolution.
Zoom	The camera must support at least a 2X optical zoom.
Focus	Must have remote focus such as auto focus or auto back focus.
Field of View	Must provide a range at between 50 and 100 degree horizontal field of view.
Frames Per Second	Camera must support at least 15 frames per second at the minimum resolution specified above.
Night Capability	The camera must be a true Day/Night camera with a mechanical IR cut filter.
Environment	Camera assembly must provide protection against dust. A custom enclosure may be provided so that a camera can operate within this requirement. Must be rated IP51 or greater.
Enclosure	Camera must be contained in housing and securely mounted in order to be resistant to tampering. Cameras which are not dome cameras require external enclosures.
	Camera must be equivalent or better than AXIS P3346-VE or P3346-V (indoor/outdoor application)

**Table 9 – UPS**

<b>Form Factor</b>	- Rack mount
<b>Power Rating</b>	- An uninterruptible power supply (UPS) must be able to supply servers, the associated switches and all critical accessories embedded.

<b>Power runtime</b>	- The uninterruptible power supply (UPS) must be able to supply a minimum of <b>20 minutes</b> of power at full power capacity during a power outage.
<b>Soft Shutdown</b>	- In the event of a power outage, the UPS are configured to initiate a safe shutdown of the servers based on battery capacity and/or time delay.
<b>Connectivity</b>	- UPS must be connected to each server through a network interface in order to initiate the shutdown in case of power outage.
<b>Output Waveform</b>	- True sine wave output - Output voltage distortion with less than or equal to 5% distortion at full load.
<b>Topology</b>	- Must be a Double Conversion, On-Line UPS.
<b>Example</b>	- PS model Eaton 9130 series rack mount UPS equivalent or better can be supplied.

**Table 10 – Workstations**

13. The operating system must be Windows 7 Professional (32 bit or 64 bit*), Windows 7 Enterprise (32 bit or 64 bit*) or Windows 7 Ultimate (32 bit or 64 bit*). * Running as a 32 bit application.
14. The CPU must be Intel Core-i7, 4 cores.
15. A minimum of 8 GB of RAM must be installed.
16. The graphics adapter must be able to support the recommended resolution of 1920 x 1080.
17. A DVI or HDMI connection from the monitor to the workstation is required.
18. The connection media between the monitors and the workstations must be done through HDMI.
19. Minimum 1 TB SATA hard drive (7200 RPM SATA 3.0 GB/S) must be installed and partitioned as follow: one partition with minimum 250 GB for Operating System files and one partition with minimum 750 MB to store exported video.
20. SATA SuperMulti DVD writer
21. Software: Microsoft .NET 4.0 Framework, DirectX 9.0 or newer must be installed.
22. Monitor resolution: Monitor must have a 1920 X 1080 image resolution.
23. 40 inch monitor must be equivalent or better to a <i>Samsung SMT4023</i> .
24. 24 inch monitor must be equivalent or better to a HP Compaq LA2405wg.

**Table 11 – Enclosure**

<b>Standard</b>	The enclosure must be compliant with approved safety standards for use in Canada.
<b>Function</b>	The enclosure must be able to contain all servers, the UPS, gateways and switch (es) of the CCTV system.
<b>Form Factor</b>	The enclosure must be a Network Rack type.
	The enclosure must be a <i>4 Post Open Server Equipment Rack Enclosure</i> type.
	The enclosure must have vertical Wire Managers.
	The enclosure must have solid panels on the sides and vented panel at the rear and front door so that there is no unauthorized access to the embedded equipment.
<b>Size</b>	The enclosure must be a « Rackmount » standard <b>with</b> a width of 19 inches
	The <b>depth</b> of the enclosure must be sufficient to contain all the CCTV system equipment including all servers, UPS, gateway, the network switch (es).
	The <b>usable height</b> of the enclosure must be sufficient to contain all the CCTV system equipment including all servers, UPS, gateway, and the network switch and must be less or equal than 14U height.
<b>Knockouts</b>	The enclosure must have electrical knockouts on removable rear panel at the top and bottom.
<b>Lock</b>	The enclosure must have a front door that can be locked by key.
<b>Ventilation</b>	The enclosure must have vented panels on top and rear and /or side panel (s).
	The enclosure must have at least one (1) fan.
<b>Stability of the enclosure</b>	The enclosure must <b>not</b> have wheels installed.
<b>Example</b>	An enclosure such as the ERK-1025KD / 10FT / VFD / KO-VT3T series with appropriate accessories from Middle Atlantic or better can be used

## Section 3 – Site and Camera Layout

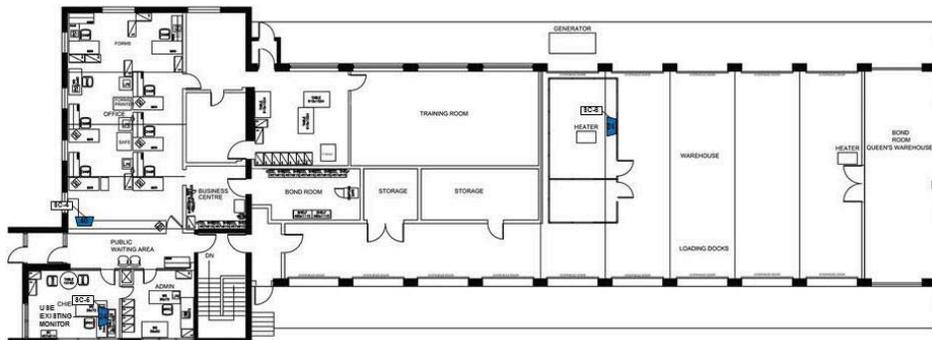
### Traffic – Floor 1



### Traffic – Floor 2



### Commercial



Site



**ANNEX “B”**  
**BASIS OF PAYMENT**

MANAGEMENT, RECORDING AND

FAILOVER SERVER \$ \_\_\_\_\_ / LOT

CAMERAS \$ \_\_\_\_\_ / LOT

WORKSTATIONS \$ \_\_\_\_\_ / LOT

NETWORK, WIRING, CABLING AND

MISCELLANEOUS HARDWARE \$ \_\_\_\_\_ / LOT

INSTALLATION \$ \_\_\_\_\_ / LOT

TRAINING \$ \_\_\_\_\_ / LOT

MAINTENANCE FOR FIRST 12 MONTHS \$ \_\_\_\_\_ / LOT

OPTION 1

OPTIONAL WARRANTY (3<sup>RD</sup> YEAR) \$ \_\_\_\_\_/LOT

OPTION 2

OPTIONAL ANNUAL MAINTENANCE FEE YR 2 \$ \_\_\_\_\_/LOT

OPTION 3

OPTIONAL ANNUAL MAINTENANCE FEE YR 3 \$ \_\_\_\_\_/LOT

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## ANNEX C

### SECURITY REQUIREMENTS CHECK LIST



Government of Canada / Gouvernement du Canada

Contract Number / Numéro du contrat  47419-153363
Security Classification / Classification de sécurité

#### SECURITY REQUIREMENTS CHECK LIST (SRCL)

#### LISTE DE VÉRIFICATION DES EXIGENCES RELATIVES À LA SÉCURITÉ (LVERS)

##### PART A - CONTRACT INFORMATION / PARTIE A - INFORMATION CONTRACTUELLE

1. Originating Government Department or Organization / Ministère ou organisme gouvernemental d'origine  Canada Border Services Agency	2. Branch or Directorate / Direction générale ou Direction Corporate and Program Services Division
3. a) Subcontract Number / Numéro du contrat de sous-traitance	3. b) Name and Address of Subcontractor / Nom et adresse du sous-traitant
4. Brief Description of Work / Brève description du travail Provide new networking infrastructure at the Lansdowne port of entry.	
5. a) Will the supplier require access to Controlled Goods? Le fournisseur aura-t-il accès à des marchandises contrôlées?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Non Oui
5. b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Regulations? Le fournisseur aura-t-il accès à des données techniques militaires non classifiées qui sont assujetties aux dispositions du Règlement sur le contrôle des données techniques?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Non Oui
6. Indicate the type of access required / Indiquer le type d'accès requis	
6. a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or assets? Le fournisseur ainsi que les employés auront-ils accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS? (Specify the level of access using the chart in Question 7. c) (Préciser le niveau d'accès en utilisant le tableau qui se trouve à la question 7. c)	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Non Oui
6. b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. Le fournisseur et ses employés (p. ex. nettoyeurs, personnel d'entretien) auront-ils accès à des zones d'accès restreintes? L'accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS n'est pas autorisé.	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Non Oui

6. c) Is this a commercial courier or delivery requirement with **no** overnight storage?  
 S'agit-il d'un contrat de messagerie ou de livraison commerciale **sans** entreposage de nuit?  No  Non

7. a) Indicate the type of information that the supplier will be required to access / Indiquer le type d'information auquel le fournisseur devra avoir accès

Canada <input type="checkbox"/>	NATO / OTAN <input type="checkbox"/>	Foreign / Étranger <input type="checkbox"/>
---------------------------------	--------------------------------------	---------------------------------------------

7. b) Release restrictions / Restrictions relatives à la diffusion

No release restrictions Aucune restriction relative à la diffusion  Not releasable À ne pas diffuser  Restricted to: / Limité à : Specify country(ies): / Préciser le(s) pays :	<input type="checkbox"/>	All NATO countries Tous les pays de l'OTAN  Restricted to: / Limité à : Specify country(ies): / Préciser le(s) pays :	<input type="checkbox"/>	No release restrictions Aucune restriction relative à la diffusion  Restricted to: / Limité à : Specify country(ies): / Préciser le(s) pays :	<input type="checkbox"/>	<input type="checkbox"/>
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7. c) Level of information / Niveau d'information

PROTECTED A <input type="checkbox"/>		NATO UNCLASSIFIED <input type="checkbox"/>		PROTECTED A <input type="checkbox"/>	
PROTÉGÉ A		NATO NON CLASSIFIÉ <input type="checkbox"/>		PROTÉGÉ A	
PROTECTED B <input type="checkbox"/>		NATO RESTRICTED <input type="checkbox"/>		PROTECTED B <input type="checkbox"/>	
PROTÉGÉ B		NATO DIFFUSION RESTREINTE <input type="checkbox"/>		PROTÉGÉ B	
PROTECTED C <input type="checkbox"/>		NATO CONFIDENTIAL <input type="checkbox"/>		PROTECTED C <input type="checkbox"/>	
PROTÉGÉ C		NATO CONFIDENTIEL <input type="checkbox"/>		PROTÉGÉ C	
CONFIDENTIAL <input type="checkbox"/>		NATO SECRET <input type="checkbox"/>		CONFIDENTIAL <input type="checkbox"/>	
CONFIDENTIEL		NATO SECRET		CONFIDENTIEL	
SECRET <input type="checkbox"/>		COSMIC TOP SECRET <input type="checkbox"/>		SECRET <input type="checkbox"/>	
SECRET		COSMIC TRÈS SECRET		SECRET	
TOP SECRET <input type="checkbox"/>				TOP SECRET <input type="checkbox"/>	
TRÈS SECRET				TRÈS SECRET	
TOP SECRET (SIGINT) <input type="checkbox"/>				TOP SECRET (SIGINT) <input type="checkbox"/>	

TRÈS SECRET  
(SIGINT)

TRÈS SECRET (SIGINT)

**PART A (continued) / PARTIE A (suite)**

8. Will the supplier require access to PROTECTED and/or CLASSIFIED COMSEC information or assets?

Le fournisseur aura-t-il accès à des renseignements ou à des biens COMSEC désignés PROTÉGÉS et/ou CLASSIFIÉS?

No   
Non

If Yes, indicate the level of sensitivity:

Dans l'affirmative, indiquer le niveau de sensibilité :

9. Will the supplier require access to extremely sensitive INFOSEC information or assets?

Le fournisseur aura-t-il accès à des renseignements ou à des biens INFOSEC de nature extrêmement délicate?

No   
Non

Short Title(s) of material / Titre(s) abrégé(s) du matériel :

Document Number / Numéro du document :

**PART B - PERSONNEL (SUPPLIER) / PARTIE B - PERSONNEL (FOURNISSEUR)**

10. a) Personnel security screening level required / Niveau de contrôle de la sécurité du personnel requis

- |                                                                             |                                                                 |                                                     |                                                                  |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------|
| <input checked="" type="checkbox"/> RELIABILITY STATUS<br>COTE DE FIABILITÉ | <input type="checkbox"/> CONFIDENTIAL<br>CONFIDENTIEL           | <input type="checkbox"/> SECRET<br>SECRET           | <input type="checkbox"/> TOP SECRET<br>TRÈS SECRET               |
| <input type="checkbox"/> TOP SECRET- SIGINT<br>TRÈS SECRET - SIGINT         | <input type="checkbox"/> NATO CONFIDENTIAL<br>NATO CONFIDENTIEL | <input type="checkbox"/> NATO SECRET<br>NATO SECRET | <input type="checkbox"/> COSMIC TOP SECRET<br>COSMIC TRÈS SECRET |
| <input type="checkbox"/> SITE ACCESS<br>ACCÈS AUX EMPLACEMENTS              |                                                                 |                                                     |                                                                  |

Special comments:

Commentaires spéciaux :

NOTE: If multiple levels of screening are identified, a Security Classification Guide must be provided.

REMARQUE : Si plusieurs niveaux de contrôle de sécurité sont requis, un guide de classification de la sécurité doit être fourni.

10. b) May unscreened personnel be used for portions of the work?

Du personnel sans autorisation sécuritaire peut-il se voir confier des parties du travail?

No   
Non

If Yes, will unscreened personnel be escorted?

No

Dans l'affirmative, le personnel en question sera-t-il escorté?

Non

**PART C - SAFEGUARDS (SUPPLIER) / PARTIE C - MESURES DE PROTECTION (FOURNISSEUR)**

*INFORMATION / ASSETS / RENSEIGNEMENTS / BIENS*

11. a) Will the supplier be required to receive and store PROTECTED and/or CLASSIFIED information or assets on its site or premises?  
Le fournisseur sera-t-il tenu de recevoir et d'entreposer sur place des renseignements ou des biens PROTÉGÉS et/ou CLASSIFIÉS?

No   
Non

11. b) Will the supplier be required to safeguard COMSEC information or assets?  
Le fournisseur sera-t-il tenu de protéger des renseignements ou des biens COMSEC?

No   
Non

**PRODUCTION**

11. c) Will the production (manufacture, and/or repair and/or modification) of PROTECTED and/or CLASSIFIED material or equipment occur at the supplier's site or premises?  
Les installations du fournisseur serviront-elles à la production (fabrication et/ou réparation et/ou modification) de matériel PROTÉGÉ et/ou CLASSIFIÉ?

No   
Non

**INFORMATION TECHNOLOGY (IT) MEDIA / SUPPORT RELATIF À LA TECHNOLOGIE DE L'INFORMATION (TI)**

11. d) Will the supplier be required to use its IT systems to electronically process, produce or store PROTECTED and/or CLASSIFIED information or data?  
Le fournisseur sera-t-il tenu d'utiliser ses propres systèmes informatiques pour traiter, produire ou stocker électroniquement des renseignements ou des données PROTÉGÉS et/ou CLASSIFIÉS?

No   
Non

11. e) Will there be an electronic link between the supplier's IT systems and the government department or agency?  
Disposera-t-on d'un lien électronique entre le système informatique du fournisseur et celui du ministère ou de l'agence gouvernementale?

No   
Non

12. a) Is the description of the work contained within this SRCL PROTECTED and/or CLASSIFIED?  
La description du travail visé par la présente LVERS est-elle de nature PROTÉGÉE et/ou CLASSIFIÉE?

No   
Non

**If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification".**

**Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire.**

12. b) Will the documentation attached to this SRCL be PROTECTED and/or CLASSIFIED?

No

La documentation associée à la présente LVERS sera-t-elle PROTÉGÉE et/ou CLASSIFIÉE?

Non

**If Yes, classify this form by annotating the top and bottom in the area entitled “Security Classification” and indicate with attachments (e.g. SECRET with Attachments).**

**Dans l’affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire et indiquer qu’il y a des pièces jointes (p. ex. SECRET avec des pièces jointes).**

TBS/SCT 350-103(2004/12)

Security Classification / Classification de sécurité

Canada