Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

Title - Sujet CBSA LPR & RFID SOLUTION RFP	

Solicitation No. - N° de l'invitation 47060-147075/A	**Date** 2014-01-28

Client Reference No. - N° de référence du client
1000317075

GETS Reference No. - N° de référence de SEAG
PW-$$HN-460-64505

File No. - N° de dossier hn460.47060-147075	**CCC No./N° CCC - FMS No./N° VME**

Solicitation Closes - L'invitation prend fin **at - à** 02:00 PM **on - le** 2014-03-10	**Time Zone** **Fuseau horaire** Eastern Daylight Saving Time EDT

F.O.B. - F.A.B.

Plant-Usine: ☐ **Destination:** ☑ **Other-Autre:** ☐

Address Enquiries to: - Adresser toutes questions à: Guertin, Benoit	**Buyer Id - Id de l'acheteur** hn460
Telephone No. - N° de téléphone (819) 956-4479 ( )	**FAX No. - N° de FAX** ( ) -

Destination - of Goods, Services, and Construction:
Destination - des biens, services et construction:

Specified Herein
Précisé dans les présentes

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 0A1 / Noyau 0A1
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

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée See Herein	**Delivery Offered - Livraison proposée**

Vendor/Firm Name and Address
Raison sociale et adresse du fournisseur/de l'entrepreneur

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**

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

Canada

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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.   Statement of Work

The contractor must provide the goods and/or services in accordance with the technical requirements stated herein at Annex "A" and in the quantities stated in Annex "B"

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.

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) 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 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

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
A9033T	Financial Capability	2012-07-16
B1000T	Condition of Material	2007-11-30

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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 <u>Ontario</u>.

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.

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 (2 copies)
Section II: Financial Bid (1 copy)
Section III: Certifications (1 copy)
Section IV: Additional Information (1 copy)

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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). 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.

Technical Documentation
TECHNICAL/DESCRIPTIVE LITERATURE MUST BE SUBMITTED AS PART OF THE TECHNICAL BID PACKAGE PRIOR TO THE BID CLOSING DATE. FAILURE TO COMPLY WILL RENDER YOUR BID NON RESPONSIVE.

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   Exchange Rate Fluctuation Risk Mitigation

1. The Bidder may request Canada to assume the risks and benefits of exchange rate fluctuations. If the Bidder claims for an exchange rate adjustment, this request must be clearly indicated in the bid at time of bidding. The Bidder must submit form PWGSC-TPSGC 450, Claim for Exchange Rate Adjustments with its bid, indicating the Foreign Currency Component (FCC) in Canadian dollars for each line item for which an exchange rate adjustment is required.

2. The FCC is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuations. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.

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3. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provision in the contract. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease).

4. At time of bidding, the Bidder must complete columns (1) to (4) on form PWGSC-TPSGC 450, for each line item where they want to invoke the exchange rate fluctuation provision. Where bids are evaluated in Canadian dollars, the dollar values provided in column (3) should also be in Canadian dollars, so that the adjustment amount is in the same currency as the payment.

5. Alternate rates or calculations proposed by the Bidder will not be accepted for the purposes of this exchange rate fluctuation provision.

Section III: Certifications
Bidders must submit the certifications required under Part 5.

Section IV: Additional Information

1.2   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:

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION
You are reminded that this solicitation requires the compliance and/or completion of requirements attached as an Annex and forming part of this document.

1.   Evaluation Procedures
Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.

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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 Mandatory Technical Criteria

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

1. Simply stating a compliancy to a criteria is insufficient. Bidders must present a clearly organized, printed (i.e., not handwritten) proposal that includes all necessary technical and descriptive literature, in order to clearly demonstrate their compliancy to all items presented in the Statement of Work (SOW) at Annex "A" and Technical Evaluation Criteria at Annex "G";
2. Technical compliance (description of items at Annex "A")
3. Technical compliance (description of items at Annex "G")

1.2 Financial Evaluation

The following Mandatory factors will be taken into consideration in the evaluation of each offer:

*Compliance with Pricing Basis;

The Offer price will be determined by processing items in Annex B as follows:
Total cost = (sum of 1.C to 11.C) + (sum of 12.F to 52.F) + (sum of 53.I to 58.I)

1.3 Pricing Basis

The bidder must quote firm unit 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 Total cost 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.

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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_equity/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.

Canada will also have the right to terminate the Contract for default if a Contractor, or any member of the Contractor if the Contractor is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list during the period of the Contract.

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The Bidder must provide the Contracting Authority with a completed annex <u>Federal Contractors Program for Employment Equity - Certification</u>, before contract award. If the Bidder is a Joint Venture, the Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, for each member of the Joint Venture.

PART 6 - RESULTING CONTRACT CLAUSES

1.   Security Requirement

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

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

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

3.   The Contractor/Offeror MUST NOT remove any PROTECTED information or assets from the identified work site(s), and the Contractor/Offeror must ensure that its personnel are made aware of and comply with this restriction.

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

5.   The Contractor/Offeror must comply with the provisions of the:

(a)   Security Requirements Check List and security guide (if applicable), attached at Annex "D";

(b)   Industrial Security Manual (Latest Edition).

2.   Statement of Work

The contractor must provide the goods and/or services in accordance with the technical requirements stated herein at Annex "A" and in the quantities stated in Annex "B"

2.1   Excess Goods

SACC Manual Clauses B7500C (2006-06-16) Excess Goods

2.2   Optional Goods and/or Services

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Annex "A" of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting

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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 (2013-04-25), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

3.2   Warranty Period

Section 09 of general conditions 2010A is amended by adding Annex "G" to the warranty.

All other provisions of the warranty section remain in effect.

4.   Term of Contract

4.1   Period of the Contract

The contract period is from _____ to _____ .

4.2   Option to Extend the Contract

The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to six (6) additional periods of up to 12 months each under the same conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions as set out in the Basis of Payment.

Canada may exercise this option at any time by sending a written notice to the Contractor at least thirty (30) calendar days before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a contract amendment.

5.   Authorities

5.1   Contracting Authority

The Contracting Authority for the Contract is:
Benoit Guertin – Supply Specialist
Public Works and Government Services Canada - Acquisitions Branch

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Logistics, Electrical, Fuel and Transportation Directorate - "HN" Division
7B3, Place du Portage, Phase III, 11 Laurier Street, Gatineau, QC, K1A 0S5
Telephone: (819) 956-4479   E-mail address:benoit.guertin@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   Project Authority

The Project Authority for the Contract is:
Name: will be inserted at contract
Title: will be inserted at contract
Telephone: (xxx) xxx-xxxx
Facsimile: (xxx) xxx-xxxx
E-mail:will be inserted at contract

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority, however the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

5.3   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

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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 a firm prices, as specified in Annex "B" for a cost of $ _____ (insert the amount at contract award). 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 Expenditure

1. Canada's total liability to the Contractor under the Contract must not exceed $ _____. Customs duties are included and Applicable Taxes are extra.

2. No increase in the total liability of Canada or in the price of the Work resulting from any design changes, modifications or interpretations of the Work, will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been approved, in writing, by the Contracting Authority before their incorporation into the Work. The Contractor must not perform any work or provide any service that would result in Canada's total liability being exceeded before obtaining the written approval of the Contracting Authority. The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:

> (a)   when it is 75 percent committed, or
> (b)   four (4) months before the contract expiry date, or
> (c)   as soon as the Contractor considers that the contract funds provided are inadequate for the completion of the Work,

whichever comes first.

3. If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority a written estimate for the additional funds required. Provision of such information by the Contractor does not increase Canada's liability.

6.3   Multiple Payments

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

6.4   Insurance

SACC Manual clause G1005C (2008-05-12) Insurance

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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.

Each training invoice must be supported by   a copy of time sheets to support the time claimed;

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.

   (b)   One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

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.

8.2   Federal Contractors Program for Employment Equity - Default by the Contractor
The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and HRSDC-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the

Contractor will be added to the "FCP Limited Eligibility to Bid" list. The imposition of such a sanction by HRSDC will constitute the Contractor in default as per the terms of the Contract.

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;

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(b) 2010A (2013-04-25) General Conditions - Goods, Services (Medium Complexity);

(c) Annex A, Statement of Work

(d) Annex B, Deliverables and Price list

(e) Annex C, Deployment Schedule

(f) Annex D, Security Requirements Check List

(g) Annex E, Warranty

(h) Annex F, Federal Contractors Program for Employment Equity - Certification

(i) 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. SACC Manual Clauses (Delivery)

SACC Reference	Section	Date
D2000C	Marking	2007-11-30
D2001C	Labelling	2007-11-30
D9002C	Incomplete Assemblies	2007-11-30

11.1 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.

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ANNEX "A" - STATEMENT OF WORK

Project: CBSA Licence Plate Reader (LPR) and Radio-Frequency Identification (RFID) Solution

1.0 SCOPE

1.1 OBJECTIVE

The objective of this requirement is to successfully and efficiently leverage technological equipment whilst processing conveyances and travellers during primary inspection at land ports of entry across Canada.

1.2 BACKGROUND

The Canada Border Services Agency (CBSA) has long used LPR and RFID hardware to facilitate its operations at primary inspection. In short, LPRs are used to capture license plate information as conveyances approach the inspection booth while RFID readers installed in primary inspection lanes can capture data from RFID enabled documents to support traveller processing.

A combination of factors justifies the procurement of LPR and RFID equipment:

- Current equipment has reached end of life; and
- Commitments made under the "Beyond the Border Action Plan" which sets out to achieve the shared vision issued by the Prime Minister of Canada and the President of the United States on February 4, 2011 (*Beyond the Border: A Shared Vision for Perimeter Security and Economic Competitiveness*).

Under this contract, the Contractor must provide one solution which integrates RFID and LPR components together. The bid must be submitted by a single party even if a secondary party is providing a solution for one set of requirements. All interactions with CBSA will be through the primary contractor (the party who submitted the bid). All RFID Corporate Mandatory Requirements must be qualified against a single party in a multiple party bid. All LPR Corporate Mandatory Requirements must be qualified against a single party in a multiple party bid.

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2.0   REQUIREMENTS

2.1   DELIVERY

The Contractor must deliver the Solution that meets all of the requirements identified in the Statement of Requirement attached.

2.2   DEPLOYMENTS/ INSTALLATIONS

2.2.1 Any implementation must be approved in writing by the Project Authority and each implementation type must follow the implementation process instructions defined within Appendix D - Implementation Options and follow the deployment schedule in Annex C - Deployment Schedule.

2.2.2 The Contractor must install the Solution during any twenty-four hour day, any day of the week, if requested by the CBSA.

2.2.3 Based on the deployment decision identified by CBSA, the Contractor's Solution must be deployed using the following implementation methods as detailed in Appendix D:

- Option #1 - Installation of the Solution using a Lane Survey (lane not designed to support equipment);
- Option #2 - Installation of the Solution using a Lane Verification (lane already designed to support equipment);
- Option #3 - Installation of the Solution using Lane Design Blueprints based on CBSA provided Architectural Drawings;
- Option #4 - Uninstalling the Solution;
- Option #5 - Uninstalling and reinstalling the Solution on the same trip;
- Option #6 - Re-Installation of the Solution using a previously de-installed Solution or a spare Solution; and
- Option #7 - Installation in a laboratory setting.

2.2.4 The Contractor's Solution must include on each Solution the Hydro-electrical sticker in accordance with the applicable provincial and state regulations based on the location of the site in which the Solution is installed, prior to delivery to CBSA.

2.2.5 The Contractor must supply all associated materials required to effect complete installation, integration and configuration of the Solution at each site. This shall include, but not be limited to, such thing as all the required power connectors, cables, strapping, mounting arms and any other accessories required for installing, integrating and configuring the Contractor's Solution.

2.2.6 The Contractor must install, integrate and configure the Solution as outlined in Appendix B, Appendix D and as described herein upon notification by CBSA. For RFID-only solutions, the Contractor must complete installation of the Solution in a lane in 0.5 days or less. For LPR-only solutions, the Contractor must complete installation of the Solution in a lane in 1 day or less. For combined RFID and LPR solutions, the Contractor must complete installation of the Solution in a lane in 1.5 days or less.

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2.2.7 The Contractor must uninstall the Solution, either in whole or in part, when requested by the CBSA (see Appendix D – Implementation Options).

2.2.8 The Contractor must uninstall and remove from each lane any existing LPR or RFID components. All equipment removed by the Contractor must be returned immediately to the CBSA once removed.

2.2.9 Where indicated by CBSA, the Contractor must provide and install with each unit a digital indicator as detailed in the mandatory evaluation criteria.

2.2.10 Where indicated by CBSA, the Contractor must provide and install with each unit two (2) signage displays to instruct users about the proper use of the RFID Solutions.

Display 1 – The purpose of this display is to provide advance notification to travellers of the RFID solution within the lane (or stop sign), in order to prepare the passengers of a vehicle to present their RFID enabled documents to the RFID solution. As such, this display must be positioned within the immediate vicinity of the (in-lane/stop sign) RFID solution but displayed toward a conveyance that would be approaching the RFID Solution (from the beginning of lane).

Specifications:
- Must be weatherproof.
- 8.5 in x 14 in (minimum) sign that must be installed within the immediate vicinity of the in-lane (or stop sign) RFID solution but directed toward a conveyance that would be approaching the RFID Solution (from the beginning of lane).
- Must be reflectorized or illuminated.
- Must be constructed from aluminum.
- Must include English and French wording (equal font size).
- Any wording must be reflective of all RFID enabled travel documents and must not specify any one specific document/card. For example, the display cannot specify "Display NEXUS Card" or "Display EDL", and instead must be representative of any RFID enabled documents that could be presented to the RFID solution.
- One (minimum) directional arrow must be included on the display.
- Display cannot include any manufacturer markings visual to travelling public (i.e. logo from company that created display).
- Must not impede the RFID solution's performance.

Display 2: The purpose of this display is to provide instructions to passengers in a vehicle within the immediate vicinity (read zone) of the RFID solution. As such, this display will must be positioned on, or adjacent to, the RFID solution and will provide information that will instruct travellers how to properly display their RFID enabled document to the RFID solution.

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Specifications:
- Must be weatherproof.
- 12 in x 12 in (minimum).
- Must be installed/positioned on the RFID solution, if appropriate, or immediately beside, above, or below.
- May be illuminated.
- Must include wording (English and French required in equal font size) to instruct travellers where to display RFID enabled documents.
- Any wording that refers to documents must be reflective of all RFID enabled travel documents and must not specify any one specific document/card. For example, the display cannot specify "Display NEXUS Card" or "Display EDL", and instead must be representative of any RFID enabled documents that could be presented to the RFID solution.
- The display must include graphics including at a minimum the image of a hand holding a card.
- Display cannot include any manufacturer markings visual to travelling public (i.e. logo from company that created display).
- Must not impede the RFID solution's performance.

The Contractor must submit proposed display designs (samples) to the CBSA Project Authority for review. During review, should the CBSA Project Authority request changes in design, revised samples must be provided by the Contractor until final approval is received by the CBSA Project Authority.

In addition, any displays/signs that can no longer serve their desired purpose (i.e. no longer legible, faded image, etc.) due to damage caused by exposure to elements over the life of the Contract must be replaced at the Contractor's expense.

2.3 TESTING

Upon successful completion of the installation of the Solution in each lane, the Contractor must provide support to the CBSA authorities as they undergo a 30 day Acceptance Testing of the reliability and availability during the next 30 consecutive day period of the Solution. The reliability and availability must maintain a rate of 98% during this period. Should any problems be encountered with the reliability and availability of the combined or individual LPR and RFID Solution(s), these problems must be corrected by the Contractor at the Contractor's expense within a 48 hour period. If the availability level is not met over the 30 consecutive day period, Acceptance Testing will continue on a day-to-day basis until the objective is met.

2.4 TRAINING

2.4.1 In advance of the delivery of a training sessions, the Contractor must provide for the approval of the CBSA Project Authority a plan that outlines the topics to be covered and the manner of delivery for the training sessions.

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2.4.2 The Contractor must provide training sessions, which include both a formal classroom training component and a hands-on component, for up to 20 CBSA resources at sites identified by the CBSA. Each session must include the following topics (at a minimum): use, configuration, troubleshooting, basic maintenance, preventative maintenance, operation instruction, quick fixes to common problems, and installation and removal of the components so that they can be returned to depot.

2.4.3 Training sessions must be offered in:
- English-only;
- French-only; and,
- Bilingual (English and French).

2.4.4 The Contractor must deliver training sessions within 30 calendar days notification from the CBSA. The CBSA will specify the date, time and location as well as the language of the session in the notification to the Contractor.

2.4.5 Upon completion of the installation and hands on training, the Contractor must provide for each site a CD/DVD outlining in both English and French information on the use, configuration, troubleshooting and basic maintenance of all the solution's components as well as outlining preventative maintenance, operation instruction, quick fixes to common problems and installation and removal of each of the solution's components for return to depot requirements.

2.5   WORK ON NETWORK ACCESS CONTROL (NAC)

2.5.1 If requested by CBSA, the Contractor must provide technical resources knowledgeable about the Contractor's Solution and how it can be integrated into the technical environment as described in Appendix C to work with CBSA at the CBSA site to create the CBSA platform image for the device that performs NAC functionality. The work on the NAC by CBSA and the Contractor's resources will ensure that:

a. As delivered by the Contractor, the Contractor's NAC component will not introduce more than 50 milliseconds into the data stream;
b. The NAC must be able to deliver Windows 7 Enterprise operating capability and must be upgradeable/ forward compatible with available operating system versions;
c. The NAC must be capable of operating with 32 bit and 64bit versions of loaded operating systems;
d. The NAC must integrate with the distributed computing security policies provided by CBSA's infrastructure;
e. The NAC must integrate with the virus and malware protection products provided by the CBSA's network infrastructure; and
f. The NAC must support the Microsoft's Monthly Patch management process.

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2.5.2 If on-site troubleshooting is required, the Contractor must provide professional resources to assist CBSA in creating the CBSA platform image at a CBSA facility. The Contractor must provide support for image updates as needed for the duration of the Contract.

2.5.3 CBSA must be able to load a CBSA platform image onto the device that provides NAC functionality. The Contractor must provide all software and/or hardware tools required to load a base image onto the device that provides NAC functionality.

2.5.4 The Contractor's LPR Solution must have a plate collection mechanism which sends raw images (un-cropped) to an FTP server defined by CBSA without any interruption or degradation of any of the Contractor's Solution's functions.

2.5.5 The Contractor's LPR Solution must provide, at a minimum, the following functionality through the Central Management Console or through one or multiple Graphical User Interfaces (GUI's) running on any device only accessible through the NAC device.
   a) Ability to remotely monitor in real-time each LPR as it is operating, including viewing the license plate information (interpretation and images);
   b) Ability to remotely configure the LPR plate collection functionality (Enable/disable, how many plates to collect, input FTP server information); and
   c) Ability to remotely configure the LPR plate collection functionality.

2.6   CENTRAL MANAGEMENT CONSOLE

2.6.1 Within 30 calendar days from Contract Award, the Contractor's central management console must meet the following requirements before it can be deployed in a lane:

   a. The Contractor's Central Management Console software must be compatible with Windows Server 2008 hosted by a CBSA Server; and
   b. The Contractor's Central Management Console must be accessible remotely by CBSA to be hosted on the CBSA network which includes at a minimum:
      i. The ability to integrate with the identification, authentication and authorization services provided by the CBSA's network infrastructure (refer to see Appendix C - Technical Infrastructure);
      ii. A GUI interface;
      iii. A dashboard to monitor the health status of each lane in real-time that includes each of the devices that make up the lanes. If a device is experiencing issues or is unavailable, a specific error message should be displayed;
      iv. Ability to display the model numbers, serial numbers, hardware version, software version, firmware version and the last reboot date for each of the solution's devices and must be exportable in PDF or Word doc format;

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     v. Ability to provide statistical read rates (successful reads, low confidence reads, no reads and no plates) for each LPR;

    vi. Ability to configure and generate alerts of any device that is part of a lane experiencing issues or is unavailable and when LPR read rates of a lane fall below a certain threshold (configurable);

   vii. The ability to produce audit records (log) that capture at a minimum the following events performed by user, service, and system accounts:

- Type (e.g. configuration changed);
- When (e.g. 2013-01-01 5:00am EST);
- Where (e.g. system ID);
- Source (e.g. workstation ID);
- Outcome (e.g. success, fail); and
- Identity (e.g. user ID, service account ID, system account ID);

  viii. Ability to push updates to any of the solution's devices;

    ix. Ability to manage user access and roles;

    x. Ability to group lanes; and

    xi. Ability to remotely configure and optimize each of the RFID reader's components, including its antenna power/read zone.

2.7 PROFESSIONAL SERVICES

CBSA may require additional professional services during the life of the contract related to Article 2.5 and 2.6 of this Statement of Work and the related to the use of the Contractor's Solution in ways not described in this SOW or Annex A. The professional services required will be either a senior level 3 Platform Specialist or a senior level 3 Operations Support Specialist as defined in http://www.tpsgc-pwgsc.gc.ca/app-acq/sptb-tbps/categories-eng.html. In such situations CBSA will identify the requirement to the Contractor in writing. Upon written notification by CBSA, the Contractor must research the requirement and provide within five (5) business days a proposal outlining the costs associated with undertaking the work, the impact on the current use of the solution and the length of time it requires before they can provide the resources to CBSA. CBSA will review the proposal and within five (5) business days will either confirm that they want to go ahead with the use of the Contractor's resources; ask for modifications to the proposal; or identify that they do not need the resources.

3.0 STANDARDS AND SPECIFICATION

3.1 The Contractor's Solution must ensure that all electrical components of the Contractor's solution meets the Canadian Standards Association (CSA) C22.2 No. 60950 in accordance with the requirements of the Canadian Electrical Code, Part 1 prior to installation.

3.2 The Contractor's Solution must be compliant with the IEEE Standard ANSI N42.35-2003 vibration requirement.

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3.3   The Contractor's Solution must be compliant with the Occupational Health and Safety Act – part IV toxic substances (http://www.labour.gov.on.ca/english/hs/pubs/ohsa/ohsa_part4.php) and Canadian Centre for Occupation Health and Safety – Radiation Quantities and units of Ionizing Radiation regulations (http://www.camrt.ca/abouttheprofession/camrtoccupationalhealthandsafetyohsresourcecentre/radiationexposure/)

3.4   The Contractor's Solution must be compliant with the Canadian Standards Association (CSA) (http://www.ccohs.ca/legislation/csa.html) or Underwriters Laboratories of Canada (ULC) (http://www.ul.com/canada/eng/pages/ulcstandards/) standards.

3.5   In cases where the Contractor's Solution will be installed at ports of entry on US soil it must:

   a.   adhere to all necessary US standards for Toxic Substances, Radiation Quantities and Units of Ionizing Radiation and
   b.   have equivalent to Canadian Standards Association (CSA) and equivalent Hydro-electrical certification bearing a certification sticker.

4.0   REPORTING REQUIREMENTS

4.1   At the end of any month in which the Contractor must install, configure, integrate, train or participate in the Acceptance Testing associated with any of the combined or individual LPR and RFID Solution(s) under this Contract, the Contractor must provide the CBSA Project Authority with a monthly status report in electronic form (Adobe Acrobat PDF) that identifies the status of at a minimum:

   i)   activities related to installations;
   ii)   list of persons trained in each training session;
   ii)   major milestones;
   iii)   open action items;
   iv)   program risks and response to risks;
   v)   modification progress to schedule performance;
   vi)   major activities planned for the succeeding month; and,
   vii)   status of baseline changes.

4.2   The Contractor must provide a monthly electronic copy of the log for support incidents and a monthly electronic copy of the log for return-to-depot to the CBSA generic inbox, identified in the Contract.

The **technical support log** for support incidents must include:
   (1)   Tracking number;
   (2)   Client tracking number (to be provided by the Client upon call);

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   (3)   Date and time of call;

   (4)   Description of the problem;

   (5)   Resolution; and

   (6)   Status.

The **return-to-depot log** must include:

   (1)   Tracking number;

   (2)   Client tracking number (to be provided by the Client upon call);

   (3)   Serial number of defective part/component;

   (4)   Date and time defective part/component received;

   (5)   Date and time replacement part/component shipped;

   (6)   Location of part/component;

   (7)   Description of the problem;

   (8)   Resolution; and

   (9)   Status.

4.3   The Contractor's Solution must provide on a monthly basis in the first year of the Contract and thereafter upon the request of CBSA in electronic formats (pdf and .doc) an Inventory Report. This Inventory Report would list the following items for each component (cameras, strobes, sensors, processing units, RFID readers, NAC, etc.) and where appropriate the Inventory Report must display column averages and totals:

   a. model numbers;

   b. serial numbers;

   c. installation/deployment date;

   d. location of installation (site name, site code and lane number).

4.4   The Contractor's Solution must include with each unit one (1) CD/DVD (compatible with the Client's standards: Microsoft Word, Adobe Acrobat (PDF), or HTML) with the Technical documentation in English and French that includes at a minimum all information relating to:

   a. Operations of the Solution and its components;

   b. Installation;

   c. Configuration;

   d. Diagnostics and Troubleshooting;

   e. Device hardening guide;

   f. Design;

   g. Development;

   h. Integration; and,

   i. Testing of the system.

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4.5   For any sites identified as located on US soils in the Deployment Schedule (refer to Annex C - Deployment Schedule), the Contractor must provide one (1) paper copy and one (1) electronic copy of proof that all resources involved in the installation, configuration, integration and training of the Contractor's solution have the necessary documentation required to work on US soil.

4.6   The Contractor's Solution must include with each order one (1) written certificate demonstrating that all electrical components of the Contractor's solution meets the Canadian Standards Association (CSA) C22.2 No. 60950 in accordance with the requirements of the Canadian Electrical Code, Part 1 prior to installation.

5.0   CONSTRAINTS

5.1   All data produced and captured by the Contractor's Solution must be owned by CBSA. All data produced and captured must not be distributed in whole or in part to any other person or organization nor can it be retained for purposes other than to support the CBSA.

5.2   The Contractor's Solution must not permanently store any confidential or personally identifiable information.

5.3   Although the Contractor will be provided site access for installation and training purposes, at no time during the provision of on-site troubleshooting and/or support will the Contractor be provided with CBSA network access.

5.4   The Contractor's Solution must be mounted in such a way to permit CBSA Resources unobstructed and safe access to the equipment for diagnosis and replacement of all hardware.

5.5   CBSA must be able to load updates to the original build onto the device that provides NAC functionality.

5.6   The Contractor's Solution must fit within the existing physical infrastructure (see Appendix A - Typical Physical Infrastructure of a Lane.). Modifications to the existing physical infrastructure of a lane in order to install the Solution must be limited to activities such as installing additional surface-mounted bollards, surface conduit, junction boxes, equipment enclosures and equipment mounts. These limitations would preclude the Solution from operating using ground loop triggers.

5.7   CBSA must maintain the ability to configure (enable/disable) any additional protocols that may be supported by the Contractor's RFID Solution (or added at a future date).

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5.8 The RFID Component of the Contractor's Solution must support the Low Level Reader Protocol Class One Generation 2 (LLRP –C1G2), version 1.1 or higher.

6.0 SPECIAL REQUIREMENTS

6.1 The Contractor must provide for the duration of the Contract one (1) resource who will act as the contact point for the requirement for the Crown to contact in relation to the performance of the Contract during the life of the Contract.

6.2 Surface corrosion of the Contractor's equipment must not exceed 5% over the duration of the contract. Should corrosion exceed 5%, the Contractor must replace or repair corroded components at the Contractor's expense.

6.3 Should the weather seals on the NEMA enclosures fail over the duration of the Contract, the Contractor agrees to replace them at the Contractor's expense.

6.4 The Contractor must provide to the CBSA Project Authority within 20 calendar days of Contract Award one set of five (5) paper and one set of (1) electronic copies in PDF and DWG formats of generic Lane Design Blueprints for each of the mandatory configurations (Configuration One – LPR Only and Configuration Four – LPR +1 RFID read zone at stop sign).

The Lane Design Blueprint will include the following:
   a. Equipment listing for the lane, including equipment housing.
   b. Placement of equipment for the lane based on the CBSA selected configuration.
   c. Cabling requirements for the lane.
   d. Power requirements for the lane.
   e. Physical placement of equipment, signage, lane markings, bollards, cables, conduit runs, electrical breakout boxes, mounting and protective posts; and,
   f. Any special accommodations required to install and integrate the solution in the lane.

6.5 The Contractor's NAC component must support any new CBSA platform alignment exercises such as operating system or anti-virus changes within 12 months of notification.

6.6 The Contractor must be responsible for the regression testing of any critical operating system software upgrades that may be periodically installed during the warranty period or during any period of extended service contract.

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6.7   CBSA reserves the right to install or uninstall the Contractor's Solution in any configuration it requires without the assistance of the Contractor.

7.0   PERFORMANCE STANDARDS

7.1   The Contractor's Solution must accurately interpret 98% of all readable passenger license plates from the jurisdictions supported at each site, including new plate styles, syntax or format, for the duration of the contract. If the Contractor's Solution fails to meet the 98% accuracy threshold for any of the supported plate jurisdictions at any site, the CBSA will provide license plate images to the Contractor for analysis to determine how to meet the threshold. If any software and/or hardware changes are required, the Contractor must develop and provide these changes to the CBSA within 30 days of receiving the license plate images from the CBSA. The Contractor must develop and provide these changes to the CBSA as part of the annual maintenance and support service fee.

7.2   The Contractor must be able to provide new plate jurisdictions for a site when CBSA requests it. CBSA will provide license plate images to the Contractor for analysis to determine how to add the requested jurisdictions for a site. The Contractor must develop and provide any software and/or hardware changes required to support the requested new plate jurisdictions within 30 days of receiving the license plate images from CBSA. The Contractor must develop and provide these changes to the CBSA as part of the annual maintenance and support service fee.

Appendix A - Typical Physical Infrastructure of a Lane

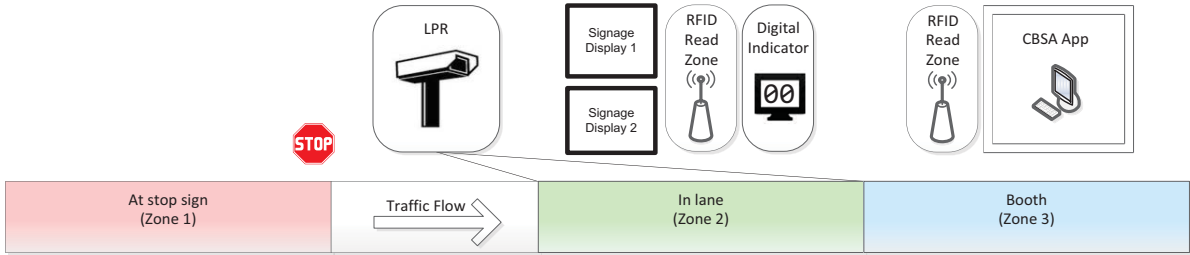The typical lane geometry is shown below.
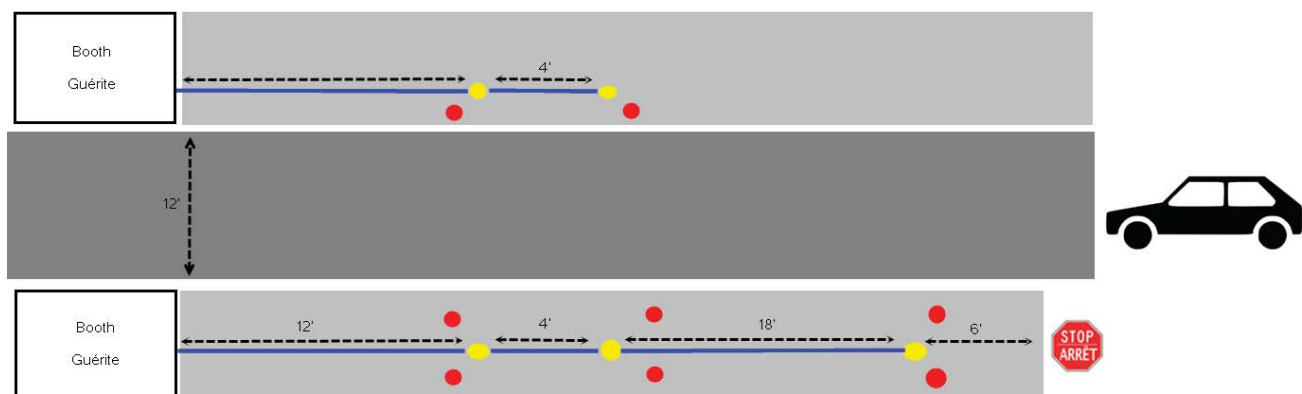
The typical lane is approximately 12ft wide and 40ft long. In front of each Primary Inspection Line (PIL) booth is an asphalt or concrete island that contains two ¾" or 1" conduits. One conduit contains Category 6 or Category 5e as well as low voltage electrical wires. The other

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conduit contains AC power, with splices or junction points to the posts depicted in yellow above. The yellow posts could be used to mount the Solution. The red posts depicted above currently serve as protective posts to protect the equipment mounted on the yellow posts. There is no cabling or electrical wire running to the red posts.

Appendix B - Lane Configurations

1) LPR only
2) LPR + 1 RFID read zone in lane + 1 Digital Indicator + 2 Signage Displays
3) LPR + 1 RFID read zone in lane + 1 RFID read zone at booth + 1 Digital Indicator + 2 Signage Displays
4) LPR + 1 RFID read zone at stop sign + 1 Digital Indicator + 2 Signage Displays
5) LPR + 1 RFID read zone at stop sign + 1 RFID read zone at booth + 1 Digital Indicator + 2 Signage Displays
6) 1 RFID read zone in lane + 1 Digital Indicator + 2 Signage Displays
7) 1 RFID read zone in lane + 1 RFID read zone at booth + 1 Digital Indicator + 2 Signage Displays
8) 1 RFID read zone at stop sign + 1 Digital Indicator + 2 Signage Displays
9) 1 RFID read zone at stop sign + 1 RFID read zone at booth + 1 Digital Indicator + 2 Signage Displays

1) LPR only
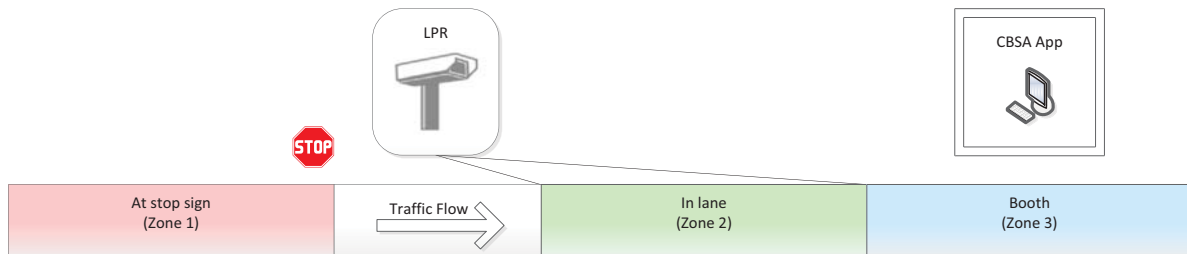
2) LPR + 1 RFID read zone in lane + 1 Digital Indicator + 2 Signage Displays
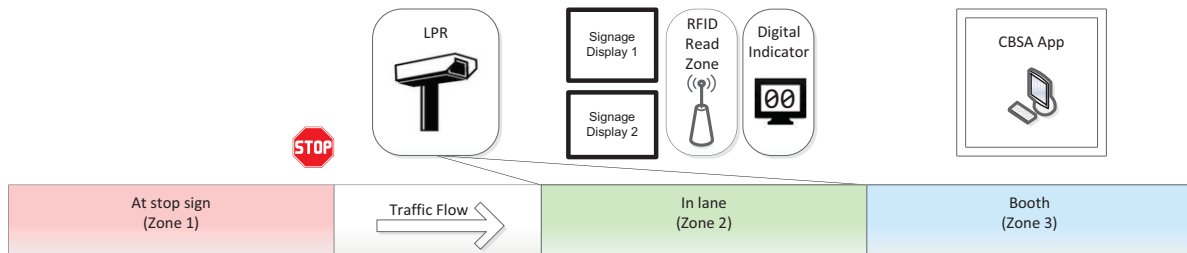
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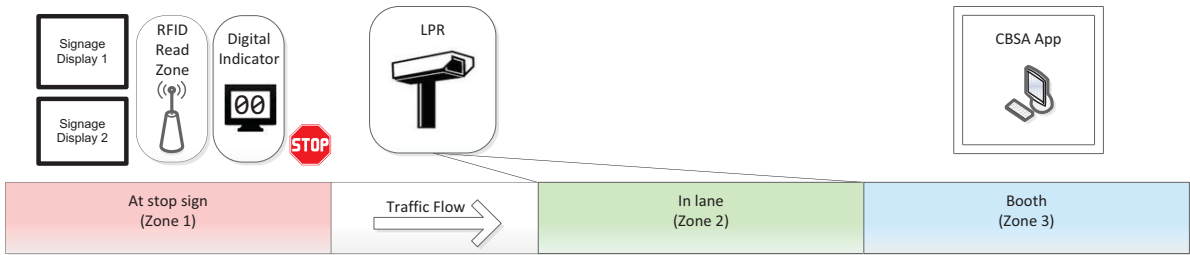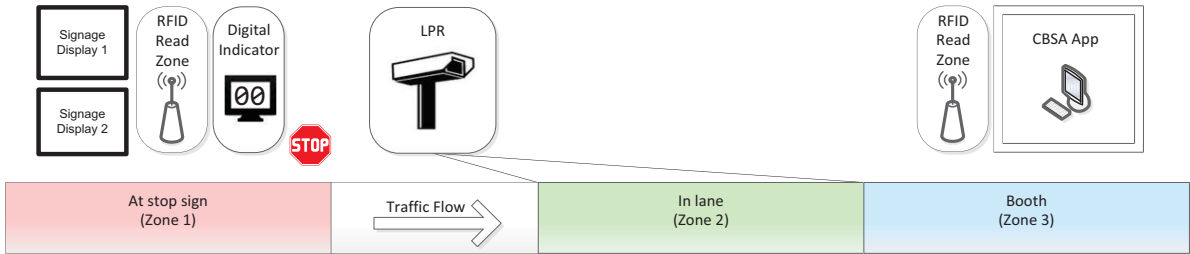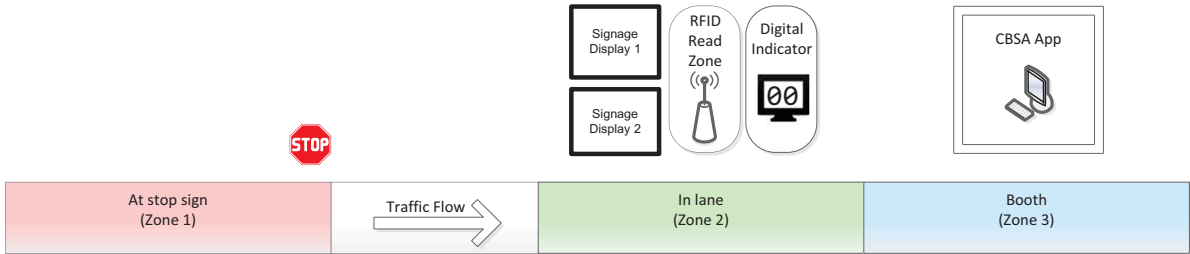Client Ref. No. - N° de réf. du client
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3) LPR + 1 RFID read zone in lane + 1 RFID read zone at booth + 1 Digital Indicator + 2 Signage Displays

4) LPR + 1 RFID read zone at stop sign + 1 Digital Indicator + 2 Signage Displays

5) LPR + 1 RFID read zone at stop sign + 1 RFID read zone at booth + 1 Digital Indicator + 2 Signage Displays

6) 1 RFID read zone in lane + 1 Digital Indicator + 2 Signage Displays

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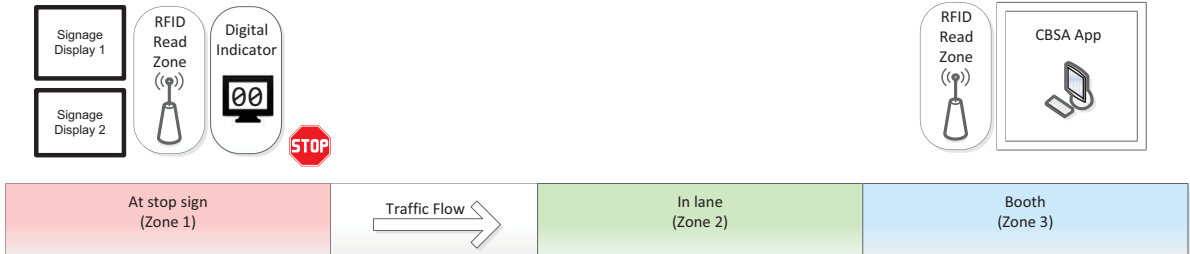CCC No./N° CCC - FMS No./N° VME

7) 1 RFID read zone in lane + 1 RFID read zone at booth + 1 Digital Indicator + 2 Signage Displays
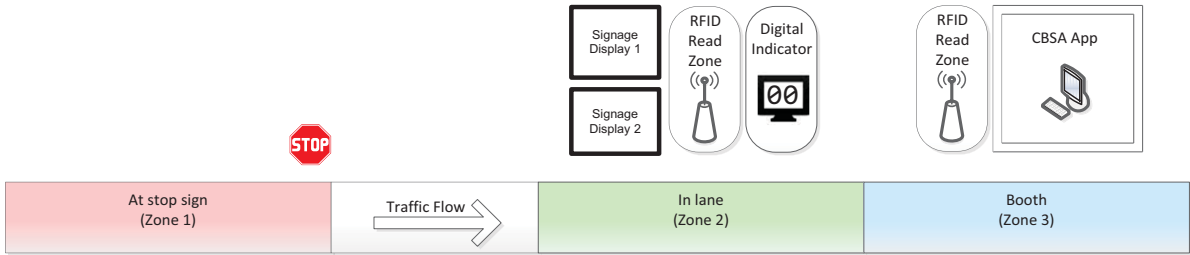
8) 1 RFID read zone at stop sign + 1 Digital Indicator + 2 Signage Displays
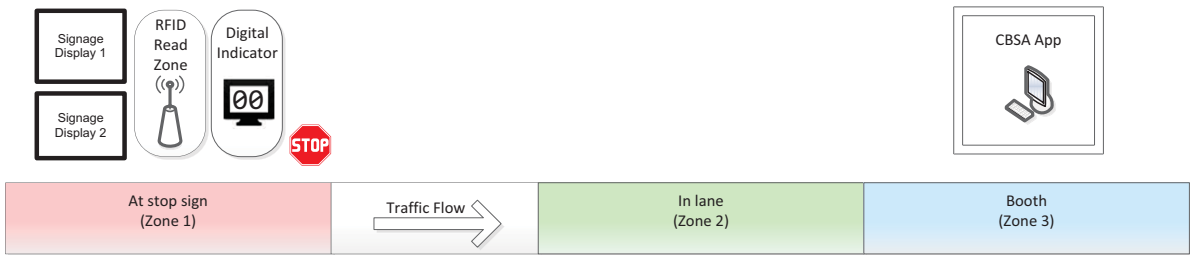
9) 1 RFID read zone at stop sign + 1 RFID read zone at booth + 1 Digital Indicator + 2 Signage Displays

Requirements for each configuration:

Configurations	LPR	Zone 1 - Stop Sign				Zone 2 - In Lane				Zone 3 - At Booth			
		RFID	Signage Display 1	Signage Display 2	Digital Indicator	RFID	Signage Display 1	Signage Display 2	Digital Indicator	RFID	Signage Display 1	Signage Display 2	Digital Indicator
1	X												
2	X					X	X	X	X				
3	X					X	X	X	X	X			
4	X	X	X	X	X								
5	X	X	X	X	X					X			
6						X	X	X	X				
7						X	X	X	X	X			
8		X	X	X	X								
9		X	X	X	X					X			

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Appendix C - Technical Infrastructure

Background

The Canada Revenue Agency (CRA) and Shared Services Canada (SSC) currently provide infrastructure services to the Canada Border Services Agency (CBSA).

Windows "Managed" Environment

The Distributed Computing Environment (**DCE**) is a Client/Server based Infrastructure that consists of Windows based servers, desktops and laptops with Windows Active Directory (AD) providing the backend directory services.

There are approximately hundreds of sites across Canada supported by the DCE. These sites will vary in size from as little as 2 users to upwards hundreds in a single building. Bandwidth at these sites also varies. A typical distributed site is comprised of a File and Print server and possibly an Exchange server. Exchange services will be completely centralized by 2015. Local File and Print services are also under review to port to centralized services. Local or centralized AD domain controllers facilitate the directory services for the managed environment.

The CBSA also leverages the Terminal Services Platform (TSP) using Citrix, which consists of central servers located in the National Capital Region hosting a variety of applications and services for a select group of end-users. These applications and services include specific line-of-business applications along with base productivity applications such as MS Office, Outlook and Exchange, host emulator SW (Attachmate) and basic File and Print Services to name a few. In addition, the CRA utilizes Softgrid application virtualization SW to enhance application access and management within the TSP farm.

The following bullets will highlight the key Windows based software installed within the CBSA DCE.

- MS Windows 2008 Server
- Citrix XenApp
- Windows 7 Enterprise SP1 32bit (includes BitLocker)
- MS Office 2010
- MS Exchange 2010
- Entrust ESP v9.2
- Current McAfee Anti Virus v8.8 /w Anti-Spyware, Intrusion Prevention v8.0, Policy Auditor 6.0 managed through McAfee ePO services.
- Tivoli Endpoint Manager for software deployment, Inventory, and Remote Control.
- Microsoft WSUS for platform patch currency

The current version of the Java Runtime Environment (JRE) installed on each desktop is version 1.6.0_18, upgrading to version 1.7.

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The underlying hardware for the Windows environment consists of servers based on AMD and Intel architectures using multi core and multi-processor technology. Desktops and Laptops are also based on AMD and Intel architectures using multi core processors and dual channel memory. CBSA currently offers only a 32bit Windows 7 platform, but is investigating options for a 64bit upgrade.

The platform is considered "managed" since all workstations comply with the standard suite of security tools and monthly OS patch cycles. Additionally, every device is created as an object within the AD directory. Devices are there subjected to the mandatory policies associated to securing the device. Policies such as login script execution, local admin, and role based access are assigned to each device registered within the domain. Customization of policies can be accommodated and is for many of CBSA's "niche" device requirements. Additionally, critical and mandatory software deployments can be accommodated in an automated fashion via the Tivoli suite.

The Contractor's Solution <u>must</u> meet the following technical specifications:

a) Communicate with the CBSA application via a TCP/IP socket connection initiated by the CBSA application;

b) Transmit all data messages in XML and conform to CBSA's schema (see Appendix G - Event schemas);

c) Integrate with the current CBSA network infrastructure without impacting the performance of the Port of Entry (POE) Local Area Network (LAN);

d) Be compatible with Category 5e and Category 6 network cabling;

e) Not require connectivity or a link to the Contractor's network infrastructure from the CBSA's network infrastructure;

f) All Contractor-supplied hardware and software components must work in an Ipv4 and Ipv6 network environment and be able to be converted from Ipv4 to Ipv6 without involvement of the Contractor to complete the conversion;

g) The NAC component must work with enterprise software distribution software such as Tivoli, our current standard;

h) The NAC must be capable of integrating with the identification, authentication, and authorization services provided by the CBSA's network infrastructure, refer to Appendix C - Technical Infrastructure.

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Appendix D - Implementation Options

Option 1 – Conducting a Lane survey(s) for an Installation of the Solution using a Lane Survey

Lane not designed to support equipment.

a. Upon receipt of the written notification by CBSA, the Contractor must complete a lane survey visit within seven (7) business days to collect the information necessary to complete a Lane Design Blueprint.

b. Based on the information collected during the lane survey, the Contractor will provide two (2) copies of a Lane Design Blueprint in PDF and DWG format to the CBSA Technical Authority within ten (10) business days. The Lane Design Blueprint will include the following:
   1. Equipment listing for the site, including equipment housing.
   2. Preferred placement of equipment for the site.
   3. Cabling requirements for the site.
   4. Power requirements for the site.
   5. Physical placement of equipment, signage, lane markings, bollards, cables, conduit runs, electrical breakout boxes, mounting and protective posts; and,
   6. Any constraints or special accommodations required to install and integrate the solution at the site.

c. The CBSA will review the Lane Design Blueprint and provide a list of changes/modifications to the Contractor if required within five (5) business days.

d. The Contractor will update the blueprints based on these changes and resubmit them to the CBSA Technical Authority within five (5) business days of receiving the list of changes/modifications.

e. The CBSA will sign-off on the Lane Design Blueprints and provide the Contractor with written confirmation of the sign-off.

f. The CBSA will undertake the construction required at the site.

g. After CBSA has completed construction to the site, the Contractor must install and integrate the Solution as defined in the Contract within ten (10) business days notification from the CBSA that the site construction is completed. **The amount of time allowed for the actual installation must meet the maximum allowed times identified in article 2.2.6 of the SOW.**

Note: All Lane Design Blueprints produced under this contract will be owned by CBSA and can be used at CBSA's discretion.

Option 2 – Completion of a Lane Verification in advance of Installation of the Solution

Lane already designed to support equipment. Confirmation of readiness required prior to install.

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a.   Upon receipt of written notification by CBSA, the Contractor must complete a lane verification visit within seven (7) business days to confirm that the lane is ready to receive the Solution.

b.   If additional activities are required before the lane is ready to receive the Solution, the Contractor must itemize and describe these activities in writing and submit one (1) paper copy to the CBSA within 5 calendar days of the site verification visit.

c.   Upon review of the itemized list CBSA may choose to set up a teleconference with the Contractor to review and discuss the itemized list. CBSA will contact the Contractor to set up a mutually agreeable time for the teleconference. Should a teleconference be required, the Contractor must participate in a teleconference with the CBSA to discuss these activities as necessary.

d.   The CBSA will complete these activities.

e.   Upon written notification by CBSA that the site is ready, the Contractor must install and integrate the Solution as defined in the Contract within ten (10) business days.

Option 3 – Provision of Lane Design Blueprint based on CBSA provided Architectural Drawings for installation of the Solution

a.   Upon receipt of the written notification by CBSA, the Contractor must complete within ten (10) business days a Lane Design Blueprint using architectural and electrical (A&E) drawings provided by the CBSA.

   The Lane Design Blueprint will include the following:
   1.   Equipment listing for the site, including equipment housing.
   2.   Preferred placement of equipment for the site.
   3.   Cabling requirements for the site.
   4.   Power requirements for the site.
   5.   Physical placement of equipment, signage, lane markings, bollards, cables, conduit runs, electrical breakout boxes, mounting and protective posts; and,
   6.   Any constraints or special accommodations required to install and integrate the solution at the site.

b.   The CBSA will review the Lane Design Blueprint and provide a list of changes/modifications to the Contractor if required within five (5) business days.

c.   The Contractor must update the blueprints based on these changes and submit them to the CBSA within five (5) business days of receiving the list of changes/modifications.

d.   The CBSA will sign-off on the Lane Design Blueprints and provide the Contractor with written confirmation of the sign-off.

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e. The CBSA will construct the lane.
f. Upon written notification by CBSA that the site is ready, the Contractor must install and integrate the Solution as defined in the Contract within ten (10) business days. **The amount of time allowed for the actual installation must meet the maximum allowed times identified in article 2.2.6 of the SOW.**

Note: All Lane Design Blueprints produced under this contract will be owned by CBSA and can be used at CBSA's discretion.

Option 4 - Uninstall the Solution

a. Upon receipt of the written notification by CBSA the Contractor must de-install the Solution within ten (10) business days. The written notification will detail for the Contractor what is to be de-install and could include:
  - the removal of all LPR, RFID and NAC components,
  - the removal of LPR components ONLY,
  - the removal of the RFID components ONLY.
  - the NAC would only be removed if no LPR or RFID components are present.

b. If the de-installation is a partial removal of the solution (remove RFID only, or remove LPR only), the remaining components with a NAC must remain operational.
c. The CBSA is permitted to use de-installed equipment as spares or re-install the equipment as part of future deployment requirements.
d. All de-installed equipment must be packaged for shipping by the Contractor.
e. The CBSA is responsible for storage and/or shipping costs associated to the de-installed equipment.

Option 5 - Uninstalling the Solution / Re-installing the Solution on the same trip

a. Upon receipt of the written notification by CBSA the Contractor must de-install and re-install the Solution on the same trip within ten (10) business days. The written notification will detail for the Contractor what is to be de-install and re-install and could include:
  - the removal of all LPR, RFID and NAC components.
  - the removal of LPR components ONLY or
  - the removal of the RFID components ONLY.
  - the NAC would only be removed if no LPR or RFID components are present.

b. If the de-installation is a partial removal of the solution (remove RFID only, or remove LPR only), the remaining components with a NAC must remain operational.

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d. If requested by CBSA the Contractor must re-install the de-installed lane equipment immediately at the same or nearby port on the same trip.

e. The Contractor must package all de-installed equipment for transport by the Contractor.

f. The CBSA is responsible for the shipping costs associated to the de-installed equipment.

Option 6 - Re-installing the Solution

a. Upon receipt of the written notification by CBSA, the Contractor must re-install the Solution within ten (10) business days. The written notification will detail for the Contractor what is to be re-installed and could include:

- the addition of the complete solution (LPR, RFID, and NAC) to a lane.
- the addition LPR components ONLY.
- the addition of the RFID components ONLY.
- the NAC would only be included in a re-installation if it is not already present.
- a re-installation of equipment previously de-installed at an earlier date or an installation of equipment from a spare inventory.

Option 7 - Installation of the Solution with a Laboratory setting

Each CBSA laboratory setting will have unique constraints and space limitations.

Criteria reference: The Contractor must provide a solution that is no greater than 5' by 5' by 10' (wxdxh) in size suitable for installation in a confined space within an indoor laboratory setting).

a. CBSA shall share pictures and more detailed dimensions of the specific environment and identify in writing to the Contractor of the need for assistance with the installation of the Solution in a laboratory setting.

b. Based on the information (visual / dimensions) provided by the CBSA, the Contractor must, within five (5) business days of receiving the notification provide, CBSA with a written proposal outlining the type of resources required, the duration required to complete the work, the estimated cost and any issues related to the work.

c. CBSA will review the proposal and provide a list of changes/modifications to the Contractor, if required.

d. The Contractor must update the proposal based on these changes and submit them to the CBSA within 5 business days of receiving the list of changes/modifications.

e. Upon notification that CBSA is going to go ahead with the work, the Contractor must install and integrate the Solution as defined in the final proposal within 10 business day's notification from the CBSA.

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Appendix E - Plate Styles linked to Specific Sites

The CBSA will confirm the commonly seen plates 30 days prior to installation for each site listed below.

WLOC	Site Names	Region	Prov	# of LPR's	Common Plates	# of RFID's
2120	Woodstock	Atlantic	NB	2	NB, QC, NS, MA, ME	
2130	Edmundston	Atlantic	NB	2	NB, QC, NS, ME	
2140	Andover	Atlantic	NB	1	NB, QC, NS, ME	
2110	St.Stephen (Ferry Point)	Atlantic	NB	3	NB, QC, NS, ME, ON, NH	
2114	St. Stephens 3rd Bridge	Atlantic	NB	3	NB, QC, NS, ME ON, MA, NH	
2300	Milltown	Atlantic	NB	1	NB, QC, NS, ME	
3141	Rte 55 Stanstead	Québec	QC	4	QC, ON, VT, NH, MA, CT, ME, NY, NJ	
3281	St-Armand	Québec	QC	4	QC, ON, VT, NH, MA, CT, ME, NY, NJ	
3513	Lacolle Route 15	Québec	QC	7	QC, ON, VT, NH, MA, CT,	2

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					ME, NY, NJ	
8132	Pacific Highway	Pacific	BC	9	AB, BC, CA, OR, WA	2
8135	Douglas	Pacific	BC	7	AB, BC, CA, OR, WA	2
8150	Boundary Bay	Pacific	BC	2	BC, CA, WA	
8173	Huntingdon	Pacific	BC	5	BC,CA, OR, WA	
8174	Aldergrove	Pacific	BC	3	BC, CA, WA	
8020	Roosville	Pacific	BC	2	AB, BC, CA, MT, UT, ID, WA	
8182	Kingsgate	Pacific	BC	2	AB, BC, CA, MT, OR, UT, ID, WA	
8191	Osooyoos	Pacific	BC	3	BC, CA, OR, WA	
6021	North Portal	Prairies	SK	1	SK, AB, ON, ND, MN, MT	
7050	Coutts	Prairies	AB	3	AB, BC, SK,MT, UT, ID	
5021	Emerson	Prairies	MB	4	AB, MB, ON, ND, SD, MN	2
4390	Prescott	Northern	ON	3	ON, QC,	

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		Ontario			MI, NY, PA,	
4560	Lansdowne	Northern Ontario	ON	7	ON, FL, QC, MI, NY, PA,	
4410	Sault Ste. Marie	Northern Ontario	ON	4	ON, QC, MI, NY, PA, OH, IL	
4751	Pigeon River	Northern Ontario	ON	3	MB, ON, MN, WI	
4090	Cornwall	Northern Ontario	ON	5	ON, QC, MI, NY, PA	2
4780	Fort Frances	Northern Ontario	ON	3	MB, ON, IL, IO, MN, ND, WI	
4880	Rainy River	Northern Ontario	ON	1	MB, ON, MN, WI	
4401	Blue Water	Southern Ontario	ON	9	ON, QC, MI, NY, PA, OH, IL	2
4531	Ambassador Bridge	Southern Ontario	ON	13	ON, QC, MI, NY, PA, OH, IL	2
4521	Windsor Tunnel	Southern Ontario	ON	6	ON, QC, MI, NY, PA, OH, IL	2
4101	Fort Erie Peace Bridge	Southern Ontario	ON	12	ON, QC, MI, NY, PA, OH	2

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4272	Rainbow Bridge	Southern Ontario	ON	15	ON, CT, FL, QC, MA, MI, NJ, NY, PA, OH	2
4273	Queenston Bridge	Southern Ontario	ON	11	ON, QC, MA, MI, NJ, NY, PA, OH	2
1033	Rigaud Training Centre	NCR	ON	2	QC, ON, VT	2
1033 / 1054	Tremblay Rd Lab	NCR	ON	1	BC, WA, ON, QC	1
1033 / 1054	Billings Bridge Lab	NCR	ON	1	BC, WA, ON, QC	1
1033/ 1054	Fitzgerald Rd Lab	NCR	ON	1	BC, WA, ON, QC	1
1033 / 1054	IST Science Lab (Colonnade)	NCR	ON	0	BC, WA, ON, QC	1
	TOTAL			**165**		**28**

Breakdown of 165 LPR lanes

160 - Existing lanes
5 - Lab/Testing lanes

Breakdown of 28 RFID lanes

22 - Existing lanes
6 - Lab/Testing lanes

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Appendix F – purposely left blank

Appendix G - Event Schemas

CBSAMetadata.xsd

```xml
<?xml version="1.0" encoding="UTF-8"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

 <!-- standard CBSA metadata information -->

 <xs:complexType name="vendorInfo">

  <xs:sequence>

   <xs:element name="name" type="xs:string"/>

   <xs:element name="version" type="xs:string"/>

  </xs:sequence>

 </xs:complexType>

  <xs:complexType name="siteInfo">

  <xs:sequence>

   <xs:element name="siteCode" type="xs:string"/>

   <xs:element name="laneNum" type="xs:string"/>

  </xs:sequence>

 </xs:complexType>

  <xs:simpleType name="deviceType">

  <xs:restriction base="xs:string">
```

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```xml
        <xs:enumeration value="LPR"/>

        <xs:enumeration value="RFID1"/>

        <xs:enumeration value="RFID2"/>

      </xs:restriction>

    </xs:simpleType>

    <xs:simpleType name="zoneType">

      <xs:restriction base="xs:string">

        <xs:enumeration value="zone1"/>

        <xs:enumeration value="zone2"/>

        <xs:enumeration value="zone3"/>

      </xs:restriction>

    </xs:simpleType>

    <xs:element name="CBSAMetadata">

    <xs:complexType>

      <xs:sequence>

        <xs:element name="timestamp" type="xs:dateTime"/>

        <xs:element name="vendor" type="vendorInfo"/>

        <xs:element name="site" type="siteInfo"/>

         <xs:element name="device" type="deviceType"/>

        <xs:element name="zone" type="zoneType"/>

      </xs:sequence>

    </xs:complexType>

  </xs:element>

</xs:schema>
```

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CBSARequestStatus.xsd

```xml
<?xml version="1.0" encoding="UTF-8"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

    <!-- XSD for CBSA app to request the status of the specified device.  A
CBSAResponseStatus.xml will be returned from the vendor -->

  <xs:simpleType name="deviceType">

   <xs:restriction base="xs:string">

    <xs:enumeration value="LPR"/>

    <xs:enumeration value="RFID1"/>

    <xs:enumeration value="RFID2"/>

   </xs:restriction>

  </xs:simpleType>

   <xs:element name="CBSARequestStatus">

   <xs:complexType>

    <xs:sequence>

     <xs:element name="timestamp" type="xs:dateTime"/>

     <xs:element name="device" type="deviceType"/>

    </xs:sequence>

   </xs:complexType>

  </xs:element>

</xs:schema>
```

CBSAResponseLPR.xsd

```xml
<?xml version="1.0" encoding="UTF-8"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">
```

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1000317075	hn46047060-147075	

```
<xs:include schemaLocation="CBSAMetadata.xsd"/>

<!-- type definitions -->

<xs:simpleType name="provStateInfo">

  <xs:restriction base="xs:string">

    <xs:pattern value="[A-Z][A-Z]"/>

  </xs:restriction>

</xs:simpleType>

<xs:complexType name="plateInfo">

  <xs:sequence>

    <xs:element name="provState" type="provStateInfo"/>

    <xs:element name="plateText" type="xs:string"/>

  </xs:sequence>

</xs:complexType>

<xs:complexType name="imageInfo">

  <xs:sequence>

    <xs:element name="plateFileName" type="xs:string"/>

    <xs:element name="plateImage" type="xs:base64Binary"/>

  </xs:sequence>

</xs:complexType>

  <!-- At minimum the Contracting Solution must meet the following event types, additional
pertinent event type are permitted -->

<xs:simpleType name="eventInfo">

  <xs:restriction base="xs:string">

    <xs:enumeration value="PlateRead"/>

    <xs:enumeration value="NoPlateRead"/>
```

Solicitation No. - N° de l'invitation	Amd. No. - N° de la modif.	Buyer ID - Id de l'acheteur
47060-147075/A		hn460
Client Ref. No. - N° de réf. du client	File No. - N° du dossier	CCC No./N° CCC - FMS No./N° VME
1000317075	hn46047060-147075	

```
    <xs:enumeration value="NoPlateFound"/>

    <xs:enumeration value="PlateImage"/>

  </xs:restriction>

 </xs:simpleType>

    <!-- lpr definition -->

 <xs:element name="CBSAResponseLPR">

  <xs:complexType>

   <xs:sequence>

    <xs:element ref="CBSAMetadata"/>

    <xs:element name="tranId" type="xs:string"/>

    <xs:element name="event" type="eventInfo"/>

    <xs:element name="plate" type="plateInfo" minOccurs="0"/>

    <xs:element name="image" type="imageInfo" minOccurs="0"/>

   </xs:sequence>

  </xs:complexType>

 </xs:element>

</xs:schema>
```

CBSAResponseRFID.xsd

```
<?xml version="1.0" encoding="UTF-8"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

 <xs:include schemaLocation="CBSAMetadata.xsd"/>

  <!-- At minimum the Contracting Solution must meet the following event types, additional
pertinent event type are permitted -->

 <xs:simpleType name="eventInfo">
```

Solicitation No. - N° de l'invitation	Amd. No. - N° de la modif.	Buyer ID - Id de l'acheteur
47060-147075/A		hn460
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1000317075	hn46047060-147075	

```
    <xs:restriction base="xs:string">

      <xs:enumeration value="StartRead"/>

      <xs:enumeration value="TagRead"/>

      <xs:enumeration value="EndRead"/>

    </xs:restriction>

  </xs:simpleType>

  <!-- rfid definition -->

  <xs:element name="CBSAResponseRFID">

    <xs:complexType>

      <xs:sequence>

        <xs:element ref="CBSAMetadata"/>

        <xs:element name="tranId" type="xs:string"/>

        <xs:element name="event" type="eventInfo"/>

        <xs:element name="tag" type="xs:string" minOccurs="0"/>

      </xs:sequence>

    </xs:complexType>

  </xs:element>

</xs:schema>
```

CBSAResponseStatus.xsd

```
<?xml version="1.0" encoding="UTF-8"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xs:include schemaLocation="CBSAMetadata.xsd"/>

    <!-- type definitions -->

  <xs:complexType name="statusInfo">
```

Solicitation No. - N° de l'invitation	Amd. No. - N° de la modif.	Buyer ID - Id de l'acheteur
47060-147075/A		hn460
Client Ref. No. - N° de réf. du client	File No. - N° du dossier	CCC No./N° CCC - FMS No./N° VME
1000317075	hn46047060-147075	

```
    <xs:sequence>

      <xs:element name="statusCode">

        <xs:simpleType>

         <xs:restriction base="xs:integer">

           <xs:enumeration value="0"/>

           <xs:enumeration value="-1"/>

          </xs:restriction>

         </xs:simpleType>

       </xs:element>

      <xs:element name="statusType">

        <xs:simpleType>

         <xs:restriction base="xs:string">

           <xs:enumeration value="OK"/>

           <xs:enumeration value="Error"/>

          </xs:restriction>

         </xs:simpleType>

       </xs:element>

     </xs:sequence>

   </xs:complexType>

   <xs:complexType name="errorInfo">

   <xs:sequence>

     <xs:element name="errorCode" type="xs:integer"/>

     <xs:element name="errorDesc" type="xs:string"/>

   </xs:sequence>
```

Solicitation No. - N° de l'invitation	Amd. No. - N° de la modif.	Buyer ID - Id de l'acheteur
47060-147075/A		hn460
Client Ref. No. - N° de réf. du client	File No. - N° du dossier	CCC No./N° CCC - FMS No./N° VME
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```
    </xs:complexType>

  <!-- error definition -->

  <xs:element name="CBSAResponseStatus">

    <xs:complexType>

      <xs:sequence>

        <xs:element ref="CBSAMetadata"/>

        <xs:element name="status" type="statusInfo"/>

        <xs:element name="error" type="errorInfo" minOccurs="0"/>

      </xs:sequence>

    </xs:complexType>

  </xs:element>

</xs:schema>
```

Example XML Outputs

Example XML – LPRPlateReadExample.xml

```
<?xml version="1.0" encoding="utf-8"?>

<CBSAResponseLPR>

  <CBSAMetadata>

    <timestamp>2013-12-13T12:12:12</timestamp>

    <vendor>

      <name>Vendor</name>

      <version>v12</version>

    </vendor>

    <site>

      <siteCode>123</siteCode>
```

Solicitation No. - N° de l'invitation	Amd. No. - N° de la modif.	Buyer ID - Id de l'acheteur
47060-147075/A		hn460
Client Ref. No. - N° de réf. du client	File No. - N° du dossier	CCC No./N° CCC - FMS No./N° VME
1000317075	hn46047060-147075	

```xml
      <laneNum>1</laneNum>

    </site>

    <device>LPR</device>

    <zone>zone2</zone>

  </CBSAMetadata>

  <tranId>tranId1234</tranId>

  <event>PlateImage</event>

  <plate>

   <provState>ON</provState>

   <plateText>ABCD123</plateText>

  </plate>

</CBSAResponseLPR>
```

Example XML – LPRPlateImageExample.xml

```xml
<?xml version="1.0" encoding="utf-8"?>

<CBSAResponseLPR>

 <CBSAMetadata>

   <timestamp>2013-12-13T12:12:12</timestamp>

   <vendor>

    <name>Vendor</name>

    <version>v12</version>

   </vendor>

   <site>

    <siteCode>123</siteCode>

    <laneNum>1</laneNum>
```

Solicitation No. - N° de l'invitation	Amd. No. - N° de la modif.	Buyer ID - Id de l'acheteur
47060-147075/A		hn460
Client Ref. No. - N° de réf. du client	File No. - N° du dossier	CCC No./N° CCC - FMS No./N° VME
1000317075	hn46047060-147075	

```
    </site>

    <device>LPR</device>

    <zone>zone2</zone>

  </CBSAMetadata>

  <tranId>tranId1234</tranId>

  <event>PlateImage</event>

  <image>

    <plateFileName>ON_ABCD123tranId1234.jpg</plateFileName>

    <plateImage>AAAAZg==</plateImage>

  </image>

</CBSAResponseLPR>
```

Example XML – LPRNoPlateFoundExample.xml

```
<?xml version="1.0" encoding="utf-8"?>

<CBSAResponseLPR>

  <CBSAMetadata>

    <timestamp>2013-12-13T12:12:12</timestamp>

    <vendor>

      <name>Vendor</name>

      <version>v12</version>

    </vendor>

    <site>

      <siteCode>123</siteCode>

      <laneNum>1</laneNum>

    </site>
```

Solicitation No. - N° de l'invitation	Amd. No. - N° de la modif.	Buyer ID - Id de l'acheteur
47060-147075/A		hn460
Client Ref. No. - N° de réf. du client	File No. - N° du dossier	CCC No./N° CCC - FMS No./N° VME
1000317075	hn46047060-147075	

```
    <device>LPR</device>

    <zone>zone2</zone>

  </CBSAMetadata>

  <tranId>tranId1234</tranId>

  <event>NoPlateFound</event>

</CBSAResponseLPR>
```

Example XML – LPRNoPlateReadExample.xml

```
<?xml version="1.0" encoding="utf-8"?>

<CBSAResponseLPR>

  <CBSAMetadata>

    <timestamp>2013-12-13T12:12:12</timestamp>

    <vendor>

      <name>Vendor</name>

      <version>v12</version>

    </vendor>

    <site>

      <siteCode>123</siteCode>

      <laneNum>1</laneNum>

    </site>

    <device>LPR</device>

    <zone>zone2</zone>

  </CBSAMetadata>

  <tranId>tranId1234</tranId>

  <event>NoPlateRead</event>
```

Solicitation No. - N° de l'invitation	Amd. No. - N° de la modif.	Buyer ID - Id de l'acheteur
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Client Ref. No. - N° de réf. du client	File No. - N° du dossier	CCC No./N° CCC - FMS No./N° VME
1000317075	hn46047060-147075	

```
</CBSAResponseLPR>
```

Example XML – RFIDStartReadExample.xml

```xml
<?xml version="1.0" encoding="utf-8"?>

<CBSAResponseRFID>

  <CBSAMetadata>

    <timestamp>2013-12-13T12:12:12</timestamp>

    <vendor>

      <name>Vendor</name>

      <version>v12</version>

    </vendor>

    <site>

      <siteCode>123</siteCode>

      <laneNum>1</laneNum>

    </site>

    <device>RFID1</device>

    <zone>zone2</zone>

  </CBSAMetadata>

  <tranId>tranId1234</tranId>

  <event>StartRead</event>

</CBSAResponseRFID>
```

Example XML – RFIDTagReadExample.xml

```xml
<?xml version="1.0" encoding="utf-8"?>

<CBSAResponseRFID>

  <CBSAMetadata>
```

Solicitation No. - N° de l'invitation	Amd. No. - N° de la modif.	Buyer ID - Id de l'acheteur
47060-147075/A		hn460
Client Ref. No. - N° de réf. du client	File No. - N° du dossier	CCC No./N° CCC - FMS No./N° VME
1000317075	hn46047060-147075	

```xml
      <timestamp>2013-12-13T12:12:12</timestamp>

      <vendor>

       <name>Vendor</name>

       <version>v12</version>

      </vendor>

      <site>

       <siteCode>123</siteCode>

       <laneNum>1</laneNum>

      </site>

      <device>RFID1</device>

      <zone>zone2</zone>

     </CBSAMetadata>

     <tranId>tranId1234</tranId>

     <event>TagRead</event>

     <tag>tag1234567890</tag>

    </CBSAResponseRFID>
```

Example XML – RFIDEndReadExample.xml

```xml
<?xml version="1.0" encoding="utf-8"?>

<CBSAResponseRFID>

 <CBSAMetadata>

  <timestamp>2013-12-13T12:12:12</timestamp>

  <vendor>

   <name>Vendor</name>

   <version>v12</version>
```

Solicitation No. - N° de l'invitation	Amd. No. - N° de la modif.	Buyer ID - Id de l'acheteur
47060-147075/A		hn460
Client Ref. No. - N° de réf. du client	File No. - N° du dossier	CCC No./N° CCC - FMS No./N° VME
1000317075	hn46047060-147075	

```
    </vendor>

    <site>

      <siteCode>123</siteCode>

      <laneNum>1</laneNum>

    </site>

    <device>RFID1</device>

    <zone>zone2</zone>

  </CBSAMetadata>

  <tranId>tranId1234</tranId>

  <event>EndRead</event>

</CBSAResponseRFID>
```

Example XML – CBSARequestStatusExample.xml

```
<?xml version="1.0" encoding="utf-8"?>

<CBSARequestStatus>

  <timestamp>2012-12-13T12:12:12</timestamp>

  <device>LPR</device>

</CBSARequestStatus>
```

Example XML – LPROKExample.xml

```
<?xml version="1.0" encoding="utf-8"?>

<CBSAResponseStatus>

  <CBSAMetadata>

    <timestamp>2013-12-13T12:12:12</timestamp>

    <vendor>

      <name>Vendor</name>
```

Solicitation No. - N° de l'invitation
47060-147075/A
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1000317075

Amd. No. - N° de la modif.

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hn46047060-147075

Buyer ID - Id de l'acheteur
hn460
CCC No./N° CCC - FMS No./N° VME

```xml
      <version>v12</version>

    </vendor>

    <site>

      <siteCode>123</siteCode>

      <laneNum>1</laneNum>

    </site>

    <device>LPR</device>

    <zone>zone2</zone>

  </CBSAMetadata>

  <status>

    <statusCode>0</statusCode>

    <statusType>OK</statusType>

  </status>

</CBSAResponseStatus>
```

Example XML – LPRErrorExample.xml

```xml
<?xml version="1.0" encoding="utf-8"?>

<CBSAResponseStatus>

  <CBSAMetadata>

    <timestamp>2013-12-13T12:12:12</timestamp>

    <vendor>

      <name>Vendor</name>

      <version>v12</version>

    </vendor>

    <site>
```

Solicitation No. - N° de l'invitation	Amd. No. - N° de la modif.	Buyer ID - Id de l'acheteur
47060-147075/A		hn460
Client Ref. No. - N° de réf. du client	File No. - N° du dossier	CCC No./N° CCC - FMS No./N° VME
1000317075	hn46047060-147075	

```xml
      <siteCode>123</siteCode>

      <laneNum>1</laneNum>

    </site>

    <device>LPR</device>

    <zone>zone2</zone>

  </CBSAMetadata>

  <status>

    <statusCode>-1</statusCode>

    <statusType>Error</statusType>

  </status>

  <error>

    <errorCode>999</errorCode>

    <errorDesc>Hardware Failure</errorDesc>

  </error>

</CBSAResponseStatus>
```

Example XML – RFIDOKExample.xml

```xml
<?xml version="1.0" encoding="utf-8"?>

<CBSAResponseStatus>

  <CBSAMetadata>

    <timestamp>2013-12-13T12:12:12</timestamp>

    <vendor>

      <name>Vendor</name>

      <version>v12</version>

    </vendor>
```

Solicitation No. - N° de l'invitation	Amd. No. - N° de la modif.	Buyer ID - Id de l'acheteur
47060-147075/A		hn460
Client Ref. No. - N° de réf. du client	File No. - N° du dossier	CCC No./N° CCC - FMS No./N° VME
1000317075	hn46047060-147075	

```
  <site>

    <siteCode>123</siteCode>

    <laneNum>1</laneNum>

  </site>

  <device>RFID1</device>

  <zone>zone2</zone>

 </CBSAMetadata>

 <status>

  <statusCode>0</statusCode>

  <statusType>OK</statusType>

 </status>

</CBSAResponseStatus>
```

Example XML – RFIDErrorExample.xml

```
<?xml version="1.0" encoding="utf-8"?>

<CBSAResponseStatus>

 <CBSAMetadata>

  <timestamp>2013-12-13T12:12:12</timestamp>

  <vendor>

    <name>Vendor</name>

    <version>v12</version>

  </vendor>

  <site>

    <siteCode>123</siteCode>

    <laneNum>1</laneNum>
```

Solicitation No. - N° de l'invitation	Amd. No. - N° de la modif.	Buyer ID - Id de l'acheteur
47060-147075/A		hn460
Client Ref. No. - N° de réf. du client	File No. - N° du dossier	CCC No./N° CCC - FMS No./N° VME
1000317075	hn46047060-147075	

```
    </site>

    <device>RFID1</device>

    <zone>zone2</zone>

  </CBSAMetadata>

  <status>

    <statusCode>-1</statusCode>

    <statusType>Error</statusType>

  </status>

  <error>

    <errorCode>888</errorCode>

    <errorDesc>Communication Failure</errorDesc>

  </error>

</CBSAResponseStatus>
```

Appendix H - Glossary and Definitions

- **Commercial Lane:** Commercial lanes are used for commercial operations and process commercial traffic (i.e. commercial carriers carrying goods into Canada).
- **Conveyance:** Any vehicle or any other contrivance that is used to move persons or goods.
- **Integrated Primary Inspection Line (IPIL) Lane:** A passenger lane typically processing conventional travellers that would present a wide range documents at the border.
- **Network Access Control (NAC) and configuration functionality:** Network Access Control (NAC) is an approach to computer network security that attempts to unify endpoint security technology (such as antivirus, host intrusion prevention, and vulnerability assessment), user or system authentication and network security enforcement.

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- **NEXUS Card**: A RFID card used in NEXUS lanes that are dedicated to those vehicles where all occupants are members of the NEXUS trusted traveller program. NEXUS lanes are currently equipped with in-lane RFID readers.
- **No Plate Read:** When the plate is found but the OCR process can't read its information.
- **No Plate Found:** When the plate is not found because it is blocked, dirty, damaged or simply not present on the vehicle.
- **Obstructed Plate:** License plates that are fully or partially blocked by something external to the plate that impedes the LPR's ability to accurately identify the plate (e.g. a trailer hitch, encroaching vehicle).
- **Obscured Plate:** License plates that are fully or partially blocked by something on the plate itself that impedes the LPR's ability to accurately identify the plate (e.g. snow, salt, dirt).
- **Passenger Lane:** A passenger lane typically processing conventional travellers that would present a wide range documents at the border, including RFID enabled documents.
- **Passenger Vehicle:** A vehicle that is capable of being driven on roads by any means other than muscular power exclusively. This includes cars, passenger vans, pick-up trucks, Sport Utility Vehicles (SUVs) and motorcycles.

- **Radio Frequency Identification (RFID) Reader**: a transmitter/receiver that reads the contents of RFID tags in its vicinity. The signal is received by the RFID tags that respond to interrogation by the reader.
- **Radio Frequency Identification Card (RFIDC)**: is a membership card that is also known as "active card" and is powered by an internal lithium battery. The RFIDC has a range of up to 500 ft, and is often used for applications where the card is read inside a conveyance approaching the Primary Inspection Line (PIL).
- **Readable plate:** A plate is considered "readable" when it is not obstructed, dirty or damaged. Vanity and specialty plates are also not considered "readable".
- **Lane Survey:** An on-site assessment of the CBSA's existing Physical Inspection Lane conducted by the Contractor in order to collect information regarding the design or estimate relating to the physical geometry (determine precise placement/ locations of the equipment, access points, placement/ location of possible obstacles, etc.) and existing infrastructure of the lane to facilitate the Contractor's creation of design documents.

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hn460
CCC No./N° CCC - FMS No./N° VME

Annex "B" – Deliverables & Price list

Item No.	Description	OEM Brand name and part Number	Quantity (A)	Price (B)	Unit of measure	Total Cost (C) C = A x B
1.	LPR-only Solution and installation as depicted in Appendix B – Configuration # 1.		138	$	Each	$
2.	Combined LPR and RFID Solution and installation as depicted in Appendix B – Configuration # 4 (LPR + 1 RFID read zone at stop zone).		24	$	Each	$
3.	Combined LPR and RFID Solution suitable for installation in a laboratory setting as described in Annex A-D7.		3	$	Each	$
4.	RFID-only Solution for installation in a laboratory setting.		1	$	Each	$
5.	Professional services to assist in the installation of the Solution in a laboratory.		7.5 hours	$	Hourly rate	$
6.	Network Access Controller		2	$	Each	$
7.	Professional services to assist in the configuration of the Network Access Control of the Solution with the CBSA network environment.		15 hours	$	Hourly rate	$
8.	Bilingual training sessions		1	$	Each	$
9.	English-only training sessions		6	$	Each	$
10.	French-only training sessions		1	$	Each	$
11.	Lane Design Drawings depicting the typical lane infrastructure as described in Appendix D - Implementation Options for the following lane configurations: • LPR only (Appendix B - Lane Configurations #1) • LPR and RFID (Appendix B - Lane Configurations # 4)		1 set of 5 paper copies of each configuration and one set of electronic version	$	Set	$
	1. For evaluation purposes: Total Cost (sum of 1.C to 11.C)					$

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Optional Purchases

Item No.	Description	OEM Brand name and part Number	Estimated Quantity (D)	Price (E)	Unit of measure	Total Cost (F) F = D x E
12.	LPR-only Solution and installation as depicted in Appendix B – Configuration # 1.		35	$	Each	$
13.	Combined LPR and RFID Solution and installation as depicted in Appendix B – Configuration # 2 (LPR + 1 RFID read zone in lane).		32	$	Each	$
14.	Combined LPR and RFID Solution and installation as depicted in Appendix B – Configuration # 3 (LPR + 1 RFID read zone in lane + 1 RFID read zone at booth).		45	$	Each	$
15.	Combined LPR and RFID Solution and installation as depicted in Appendix B – Configuration # 4 (LPR + 1 RFID read zone at stop sign).		30	$	Each	$
16.	Combined LPR and RFID Solution and installation as depicted in Appendix B – Configuration # 5 (LPR + 1 RFID read zone at stop sign + 1 RFID read zone at booth).		30	$	Each	$
17.	RFID-only Solution and installation as depicted in Appendix B – Configuration # 6 (1 RFID read zone in lane).		5	$	Each	$
18.	RFID-only Solution and installation as depicted in Appendix B – Configuration # 7 (1 RFID read zone in lane + RFID read zone at booth).		5	$	Each	$
19.	RFID-only Solution and installation as depicted in Appendix B – Configuration # 8 (1 RFID read zone at stop sign).		69	$	Each	$
20	RFID-only Solution and installation as depicted in Appendix B – Configuration # 9 (1 RFID read zone at stop sign + 1 RFID read zone at booth).		5	$	Each	$

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Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
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File No. - N° du dossier
hn46047060-147075

Client Ref. No. - N° de réf. du client
1000317075

CCC No./N° CCC - FMS No./N° VME

Item No.	Description	OEM Brand name and part Number	Estimated Quantity (D)	Price (E)	Unit of measure	Total Cost (F) F = D x E
21.	One additional RFID hardware (read zone) and installation and incorporated into an existing LPR-only lane so that a Configuration # 1 lane becomes a Configuration # 2 lane.		90	$	Each	$
22.	One additional RFID hardware (read zone) and installation at the booth and incorporated into an existing combine LPR and RFID solution lane so that a Configuration # 2 lane becomes a Configuration # 3 lane.		90	$	Each	$
23.	One RFID hardware (read zone) and installation at the stop sign and incorporated into an existing LPR-only lane so that a Configuration # 1 becomes a Configuration #4 lane.		90	$	Each	$
24.	Two RFID hardware (read zone) and installation in lane and at booth and incorporated into an existing LPR only lane so that a Configuration #1 becomes a Configuration #3.		90	$	Set of two	$
25.	Two RFID hardware (read zone) and installation at stop sign and at booth and incorporation so that a Configuration #1 becomes a Configuration #5.		90	$	Set of two	$
26.	One additional RFID hardware (read zone) and installation at booth and incorporation so that a Configuration #4 becomes a Configuration #5.		90	$	Each	$
27.	One additional RFID hardware (read zone) and installation at booth and incorporation so that a Configuration #2 becomes a Configuration #3.		90	$	Each	$
28.	Network Access Controller (for use as a spare).		25	$	Each	$
29.	LPR camera (for use as a spare).		50	$	Each	$
30.	Vehicle sensors (for use as a spare).		50	$	Each	$
31.	RFID readers (for use as a spare).		30	$	Each	$
32.	Strobe or LPR camera light source		50	$	Each	$
33.	RFID antenna		50	$	Each	$

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Item No.	Description	OEM Brand name and part Number	Estimated Quantity (D)	Price (E)	Unit of measure	Total Cost (F) F = D x E
34.	Combined LPR and RFID Solution suitable for installation in a laboratory setting		1	$	Each	$
35.	Professional services to assist in the installation of the Solution in a laboratory.		20 days based on 7.5 hours a day	$	Hourly Rate	$
36.	RFID-only Solution for installation in a laboratory setting		1	$	Each	$
37.	LPR-only Solution for installation in a laboratory setting.		1	$	Each	$
38.	RFID-only Solution that CBSA will install		20	$	Each	$
39.	LPR- only Solution that CBSA will install		20	$	Each	$
40.	Bilingual training sessions		4	$	Each	$
41.	English-only training		15	$	Each	$
42.	French-only training sessions		5	$	Each	$
43.	Completion of Lane Surveys for up to 3 lanes at a time as described in Appendix D – Implementation Options #1		100	$	For up to (3) lanes at a time	$
44.	Completion of a Lane Survey for each additional lane beyond 3 as listed in item 43 as described in Appendix D – Implementation Options #1		225	$	Each	$
45.	Completion of Lane Verification for up to three lanes at a time as described in Appendix D - Implementation Options #2.		50	$	For up to (3) lanes at a time	$
46.	Completion of Lane Verification for a single lane as described in Appendix D - Implementation Options #2		20	$	Each	$
47.	Provision of final Lane Design Blueprints based on CBSA provided Architectural Drawings for up to three lanes as described in Appendix D - Implementation Options #3		50	$	For up to (3) lanes at a time	$
48.	Provision of final Lane Design Blueprints based		20	$	Each	$

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	on CBSA provided Architectural Drawings for a single lane as described in Appendix D - Implementation Options #3					
49	Uninstall the Solution as described in Appendix D – Implementation Options #4		50	$	Each	$
50.	Uninstall/Reinstall the Solution on the same trip as described in Appendix D – Implementation Options #5		25	$	Each	$
51.	Reinstall the Solution as described in Appendix D – Implementation Options #6		25	$	Each	$
52.	Professional services to assist CBSA in studying or analyzing use of the Solution in a new environment or other related duties not described herein.		75 hours (10 days based on 7.5 hours a day)	$	Hourly Rate	$
	2. **For evaluation purposes: Total Cost (sum of 12.F to 52.F)**					$

Warranty, Maintenance and Support Options

Item No.	Description	Configuration (G)	Unit Price -per lane (H)	Total estimated price per year (I) ((sum conf. 1 to 9)/9)
53.	1st one –year additional warranty, maintenance and support.	#1	$	$
		#2	$	
		#3	$	
		#4	$	
		#5	$	
		#6	$	
		#7	$	
		#8	$	
		#9	$	

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Item No.	Description	Configuration (G)	Unit Price -per lane (H)	Total estimated price per year (I) ((sum conf. 1 to 9)/9)
54.	2nd one –year additional warranty, maintenance and support.	#1 #2 #3 #4 #5 #6 #7 #8 #9	$ $ $ $ $ $ $ $ $	$
55.	3rd one-year additional warranty, maintenance and support.	#1 #2 #3 #4 #5 #6 #7 #8 #9	$ $ $ $ $ $ $ $ $	$
56.	4th one-year additional warranty, maintenance and support.	#1 #2 #3 #4 #5 #6 #7 #8 #9	$ $ $ $ $ $ $ $ $	$

Item No.	Description	Configuration (G)	Unit Price -per lane (H)	Total estimated price per year (I) ((sum conf. 1 to 9)/9)
57.	5th one-year additional warranty, maintenance and support.	#1	$	$
		#2	$	
		#3	$	
		#4	$	
		#5	$	
		#6	$	
		#7	$	
		#8	$	
		#9	$	
58.	6th one-year additional warranty, maintenance and support.	#1	$	$
		#2	$	
		#3	$	
		#4	$	
		#5	$	
		#6	$	
		#7	$	
		#8	$	
		#9	$	
	3. For evaluation purposes: Total Cost (sum of 53.I to 58.I)			$

For evaluation purposes: Total Cost = (sum 1.C to 11.C) + (sum 12.F to 52.F) + (sum of 53.I to 58.I)

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Annex "C" – Deployment Schedule

Any implementation must be approved in writing by the CBSA Project Authority. The exact deployment schedule will be defined by CBSA after the contract award but is expected to be completed on a region by region basis with the units in the initial contract period being deployed.

The Contractor must designate two deployment teams to install both the LPR and RFID solution simultaneously, whether the equipment is being deployed in the same region or different regions.

LPR and RFID Deployment Schedule			
Solution	Location	Number of Lanes	Lane Configuration
Phase 1: Testing Facilities (2014-15)			
Total Installation: 5 LPR+RFID lanes & 1 RFID-only lane			
LPR & RFID	CBSA Learning Centre, Rigaud, QC Outdoor Training Lanes	2	2 (LPR and RFID) Training Lane Configurations
LPR & RFID	CBSA Lab (Tremblay), Ottawa, ON Indoor Lab	1	1 (LPR and RFID) Lab Configuration
LPR & RFID	CBSA Lab (Billings Bridge), Ottawa, ON Indoor Lab	1	1 (LPR and RFID) Lab Configuration
LPR & RFID	CBSA Lab (Fitzgerald), Ottawa, ON Indoor Lab	1	1 (LPR and RFID) Lab Configuration
RFID	IST-Science Lab (Colonnade), Ottawa, ON Indoor Lab	1	1 RFID Only Lab Configuration
Phase 2 (2014-15)			
Total Installation: 12 LPR+RFID lanes & 58 LPR-only lanes			
LPR & RFID	Port: Blue Water Bridge Sarnia	9	2 (LPR and RFID) Lanes 7 LPR Only Lanes
LPR & RFID	Port: Windsor Tunnel	6	2 (LPR and RFID) Lanes 4 LPR Only Lanes
LPR & RFID	Port: Ambassador Bridge	13	2 (LPR and RFID) Lanes 11 LPR Only Lanes
LPR & RFID	Port: Peace Bridge	12	2 (LPR and RFID) Lanes 10 LPR Only Lanes

Type	Port	Qty	Lanes
LPR & RFID	Port: Rainbow Bridge	15	2 (LPR and RFID) Lanes / 13 LPR Only Lanes
LPR & RFID	Port: Queenston	11	2 (LPR and RFID) Lanes / 9 LPR Only Lanes
LPR	Port: Sault Ste Marie	4	4 LPR Only Lanes
Phase 3 (2014-15)			
Total Installation: 4 LPR+RFID lanes & 12 LPR-only lanes			
LPR & RFID	Port: Douglas	7	2 (LPR and RFID) Lanes / 5 LPR Only Lanes
LPR & RFID	Port: Pacific Highway	9	2 (LPR and RFID) Lanes / 7 LPR Only Lanes
Phase 4 (2014-15)			
Total Installation: 2 LPR+RFID lanes & 9 LPR-only lanes			
LPR & RFID	Port: Emerson	4	2 (LPR and RFID) Lanes / 2 LPR Only Lanes
LPR	Port: Rainy River	1	1 LPR Only Lane
LPR	Port: Fort Frances	3	3 LPR Only Lanes
LPR	Port: Pigeon River	3	3 LPR Only Lanes
Phase 5 (2015-16)			
Total Installation: 12 LPR-only lanes			
LPR	Port: St Stephen Ferry Point	3	3 LPR Only Lanes
LPR	Port: Milltown	1	1 LPR Only Lane
LPR	Port: St Stephen 3rd Bridge	3	3 LPR Only Lanes
LPR	Port: Woodstock	2	2 LPR Only Lanes
LPR	Port: Andover	1	1 LPR Only Lane
LPR	Port: Edmunston	2	2 LPR Only Lanes
Phase 6 (2015-16)			
Total Installation: 21 LPR-only lanes			
LPR	Port: North Portal	1	1 LPR Only Lane

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LPR	Port: Coutts	3	3 LPR Only Lanes
LPR	Port: Roosville	2	2 LPR Only Lanes
LPR	Port: Kingsgate	2	2 LPR Only Lanes
LPR	Port: Aldergrove	3	3 LPR Only Lanes
LPR	Port: Huntingdon	5	5 LPR Only Lanes
LPR	Port: Osoyoos	3	3 LPR Only Lanes
LPR	Port: Boundary Bay	2	2 LPR Only Lanes
		Phase 7 (2015-16)	
		Total Installation: 2 LPR+RFID lanes & 13 LPR-only lanes	
LPR	Port: Lansdowne	7	7 LPR Only Lanes
LPR	Port: Prescott	3	3 LPR Only Lanes
LPR & RFID	Port: Cornwall**	5	2 (LPR and RFID) Lanes / 3 LPR Only Lanes
		Phase 8 (2015-16)	
		Total Installation: 2 LPR+RFID lanes & 13 LPR-only lanes	
LPR	Port: St Armand	4	4 LPR Only Lanes
LPR	Port: Stanstead 55	4	4 LPR Only Lanes
LPR & RFID	Port: Lacolle Route 15*	7	2 (LPR and RFID) Lanes / 5 LPR Only Lanes

* The installation timeline for RFID readers at these ports of entry is estimated and therefore could be moved earlier, or later within the contract period.

** RFID readers at this port (Cornwall) may be implemented on U.S. soil, at the adjacent U.S. port of entry

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ANNEX D

SECURITY REQUIREMENTS CHECK LIST

(*insert if applicable*)

(*SRCL must be inserted if applicable*)

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ANNEX "E" – WARRANTY, MAINTENANCE AND RETURN TO DEPOT

The Contractor's Solution must include one (1) year of warranty, maintenance and support from the date of a successful completion of Acceptance testing for each lane.

The Contractor's Solution includes maintenance and support for the solution which includes at a minimum:

a)   Software Updates and Releases:

i) All software updates must be made available to the Client at no additional cost for the period of the contract. The word "updates" means all enhancements, extensions or other modifications to the software, including software fixes.

ii) All software releases must be made available to the Client at no additional cost for the period of the Contract. The word "releases" means enhancements or modifications to the software, new modules or supplementary modules that function in conjunction with the software, that represent the next generation of software, and which the Contractor has decided to make available to its customers usually for an additional charge.

b)   Hardware updates:

As part of the Contract and any extensions issued thereto, the Contractor must provide at no additional cost all appropriate upgrades resulting from:

i) maintaining support and interoperability between newer and older versions of hardware, including spares;

ii) The Contractor must immediately (within 48 hours) notify the Client of any defects or malfunctions in any and all proposed products, components, or documentation of which it learns from any source.

c)   The Contractor must notify the CBSA Project Authority identified in the Contract in writing of any proposed changes to the Contractor-supplied hardware components. The Contractor must receive the Client's approval in writing before the proposed changes are finalized. This includes:

i) Software changes

ii) Model changes

The Contractor must provide software updates within 30 calendar days from the time the vendor identifies a software issue or when the CBSA requests that a change be made.

The Contractor's Solution must include access **by telephone and by email** to a Service Desk i**mmediately following the installation of the first solution.** The Service Desk must be staffed by qualified personnel who are available to provide support in both official languages (English and French), based on the caller's language preference, via a toll-free telephone number, Monday through Friday during the hours of 7am to 5pm EST.

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The Contractor's hotline may use an Interactive Voice Response (IVR) system to allow the caller to select English or French when the call is first connected.

Outside of Monday through Friday during the hours of 7am to 5 pm EST, instead of answering all calls to the Service Desk with a live service agent, the Contractor may use a message service system, as long as the Contractor responds by having a service agent return the call the following business day during the hours of 7am to 5 pm EST.

The Contractor's Service Desk must:

i) Maintain a technical support log for support incidents. This log must include:
 (1) Tracking number;
 (2) Client tracking number (to be provided by the Client upon call);
 (3) Date and time of call;
 (4) Description of the problem;
 (5) Resolution; and
 (6) Status.

ii) Maintain a log for return-to-depot. This log must include:
 (1) Tracking number;
 (2) Client tracking number (to be provided by the Client upon call);
 (3) Serial number of defective part/component;
 (4) Date and time defective part/component received;
 (5) Date and time replacement part/component shipped;
 (6) Location of part/component;
 (7) Description of the problem;
 (8) Resolution; and
 (9) Status.

The Contractor's Solution must provide return-to-depot support for the Solutions. The Contractor's depot must be located within Canada. A fully functional replacement part/component Solution must be shipped to the CBSA designated return address within 48 hours of CBSA request to the Contractor's service desk. CBSA will be responsible for handling, packaging and shipping the defective part/component to the Contractor. The Contractor will be responsible for handling, packaging and shipping the replacement equipment to CBSA.

The Contractor must have in place a process that identifies patches, upgrades and fixes, including the resolution of new vulnerabilities found in their software and third-party (e.g. Microsoft) software that is integrated within the solution. The vendor must make patches, upgrades and fixes available as soon as is possible at no additional cost for the period of the Contract. CBSA must be able to download the patches, upgrades and fixes via File Transfer Protocol (FTP) or the vendor's web site.

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ANNEX F - FEDERAL CONTRACTORS PROGRAM
FOR EMPLOYMENT EQUITY - CERTIFICATION

I, the Bidder, by submitting the present information to the Contracting Authority, certify that the information provided is true as of the date indicated below. The certifications provided to Canada are subject to verification at all times. I understand that Canada will declare a bid non-responsive, or will declare a contractor in default, if a certification is found to be untrue, whether during the bid evaluation period or during the contract period. Canada will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with such request by Canada will also render the bid non-responsive or will constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit HRSDC-Labour's website.

Date: _____ (YYYY/MM/DD) (If left blank, the date will be deemed to be the bid solicitation closing date.)

Complete both A and B.

A.   Check only one of the following:
( )   A1.   The Bidder certifies having no work force in Canada.
( )   A2.   The Bidder certifies being a public sector employer.
( )   A3.   The Bidder certifies being a <u>federally regulated employer</u> being subject to the *Employment Equity Act.*
( )   A4.   The Bidder certifies having a combined work force in Canada of less than 100 employees (combined work force includes: permanent full-time, permanent part-time and temporary employees [temporary employees only includes those who have worked 12 weeks or more during a calendar year and who are not full-time students]).
         A5.   The Bidder has a combined workforce in Canada of 100 or more employees; and

( )   A5.1. The Bidder certifies already having a valid and current <u>Agreement to Implement Employment Equity</u> (AIEE) in place with HRSDC-Labour.
OR
( )   A5.2. The Bidder certifies having submitted the <u>Agreement to Implement Employment Equity</u> (LAB1168) to HRSDC-Labour. As this is a condition to contract award, proceed to completing the form Agreement   to Implement Employment Equity (LAB1168), duly signing it, and transmit it to HRSDC-Labour.

B.   Check only one of the following:

( )   B1.   The Bidder is not a Joint Venture.
OR
( )   B2.   The Bidder is a Joint Venture and each member of the Joint Venture must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions)

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ANNEX G – MANDATORY CRITERIA

Upon completion of the Technical and Financial Evaluation, CBSA will be conducting a Proof of Procurement (POP) testing at three sites, one of the CBSAs laboratories (Billings) in Ottawa, Ontario, their training facility in Rigaud, Quebec and with the assistance of the National Research Council one of the NRC laboratories in Ottawa, Ontario for environmental conditions. The purpose of the POP will be to actually test Bidder's proposed Solution against the mandatory criteria. The Bidder who is the recommended supplier will be provided with 5 business days advance notification that their units will be tested. In the notice it will detail the location and date that the Bidder will be required to be present while the POP testing occurs. It is expected that the recommended supplier will need to provide one complete unit of the proposed Solution. Should the proposed Solution fail to meet any of the evaluation criteria being tested the Bidder will be deemed non-compliant and the Bidder who was second in the compliant Bidders based on price will be invited to participate in the POP testing.

For the POP testing:

A. Billings:

The Bidder must supply configuration # 5 for the lab. This Solution does not need to meet the environmental requirements as it will be located indoors. The Bidder must supply all the requisite cables and electrical cords to effect installation in the lab. CBSA will supply the rack (i.e. metal shelving unit) that the equipment can be mounted to (we can send the highest bidder pictures prior to install). The Bidder must install the Solution. CBSA anticipates it will take 2 consecutive days to set up the equipment in the lab.

-Following the 2 set up days, CBSA resources will continue POP testing the equipment without the presence of the Bidder for an additional 3 days.

-For the 3 days of testing where the Bidder will not be present, CBSA must have the ability to call a technical resource of the Bidder's to inquire about technical issues if required.

B. Rigaud:

The Bidder must supply configuration # 5 for Rigaud. It must be the same Solution that they propose to use in our outdoor lanes across the country. The Bidder must supply all the requisite cables and electrical cords to effect installation. The Bidder must supply tripods or movable posts to mount their Solution. The bidder must install it. CBSA anticipates it will take 2 consecutive days to set up the equipment. Following the 2 set up days, CBSA resources will continue POP testing the equipment without the presence of the Bidder for an additional 3 days. For the 3 days of testing where the Bidder will not be present, CBSA must have the ability to call a technical resource of the Bidder's to inquire about technical issues if required.

-The Bidder must remove the Solution following the POP testing at Rigaud. The CBSA could pack up the equipment and ship it if the Bidder would supplies the packing materials.

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C. NRC:

The Bidder must supply configuration # 2 for NRC. It must be the same Solution that they propose to use in our outdoor lanes across the country. The Bidder must supply all the requisite cables and electrical cords to effect installation. The Bidder is not required to install the equipment. NRC testing will be completed in 8 days. NRC testing may occur at the same time as the Rigaud testing.

Overall Solution Mandatory Requirements

The overall solution must meet the following mandatory requirements:

NO #	Mandatory Criteria	Substantiation	Reference
A. General Specification (Common Requirements)			
A1.	The Contractor's Solution must meet the technical specifications identified in the SOW Article 3.0 and in **Appendix C Technical Infrastructure**.		
A2.	The Contractor's Solution must allow for multiple lane configurations. In any lane, it must be possible to add or remove components in order to change from one lane configuration to another. For example, it must be possible to add an RFID reader into a lane that was initially installed with only a license plate reader. At a minimum, the Contractor's Solution must allow these lane configurations (see Appendix B - Lane Configurations): 1) LPR only 2) LPR + 1 RFID read zone in lane + 1 Digital Indicator + 2 Signage Displays 3) LPR + 1 RFID read zone in lane + 1 RFID read zone at booth + 1 Digital Indicator + 2 Signage Displays 4) LPR + 1 RFID read zone at stop sign + 1 Digital Indicator + 2 Signage Displays 5) LPR + 1 RFID read zone at stop sign + 1 RFID read zone at booth + 1 Digital Indicator + 2 Signage Displays 6) 1 RFID read zone in lane + 1 Digital		

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NO #	Mandatory Criteria	Substantiation	Reference
	Indicator + 2 Signage Displays 7) 1 RFID read zone in lane + 1 RFID read zone at booth + 1 Digital Indicator + 2 Signage Displays 8) 1 RFID read zone at stop sign + 1 Digital Indicator + 2 Signage Displays 9) 1 RFID read zone at stop sign + 1 RFID read zone at booth + 1 Digital Indicator + 2 Signage Displays		
A3.	The Contractor's Solution must include any triggering mechanism, either software or hardware sensors with the exception of an in-ground loop trigger.		
A4.	The Contractor's Solution must detect all conveyances passing through the lane, even those without readable passenger vehicle plates.		
A5.	The Contractor's Solution must ensure that their solution operates independently of any other instance of their Solution operating in another lane at a site with no central point of failure.		
A6.	The Contractor's Solution must include a mechanism to integrate with one of the CBSA's centralized managed services through pre-built Simple Network Managed Protocol (SNMP) V1 or higher type indicators for warning and alert conditions.		
A7.	The Contractor's Solution must use the same unique transaction ID for all events generated from devices installed in Zones 1 and 2. For devices installed in Zone 3, The Contractor's Solution must generate a new unique transaction ID. **Refer to Appendix B – Lane Configurations for Zone information and Appendix G- Event**		

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NO #	Mandatory Criteria	Substantiation	Reference
	Schemas.		
A8.	The Contractor's Solution must send error events to the CBSA application when any of its devices (LPR, RFID1 or RFID2) has failed. A subsequent status of OK must be sent by the Contractor's Solution to the CBSA application when the device in question is no longer experiencing said error. **Refer to Appendix G – Event Schemas for the event specifications.**		
A9.	The Contractor's Solution must allow the CBSA Application to request status event updates on any of the devices (LPR, RFID1 or RFID2). **Refer to Appendix G – Event Schemas for the event specifications.**		
A10.	The Contractor's Solution must communicate with the CBSA application via a TCP/IP socket connection initiated by the CBSA application.		
A11.	The Contractor's Solution must transmit all data messages in XML and conform to CBSA's schema Refer to Appendix G - Event schemas.		
B. Software and Hardware Requirements (Common Requirements)			
B1.	All electrical power to all components of the Contractor's Solution must be able to be removed using plug(s) such as a 3 prong plug within the enclosures located in the lane. While power is disconnected, the removed plug(s) must be in clear view when maintenance is being performed. Each component of the Solution must be connected in a manner such that an electrician is not required when a component is replaced.		
B2.	The Contractor's Solution must include all		

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NO #	Mandatory Criteria	Substantiation	Reference
	software, whether embedded or otherwise, Application Programming Interfaces (APIs), Software Development Kits (SDKs), software drivers, dynamic Link Library (DLLs), and all associated documentation, that are required to operate the Contractor's Solution. It must also include all End User License Agreements required for the full deployment and operation of the Contractor's Solution. Software is defined for this purpose as commercial off-the-shelf software, proprietary software, freeware, shareware, and data sets.		
C. Security Requirements			
C1.	The Contractor's Solution must allow CBSA to wipe the memory and hard disk drives of the Solution's devices. If this is not possible, the Contractor's Solution must allow CBSA to degauss, or physically destroy the Solution's devices.		
C2.	The Contractor's Solution must allow administration by CBSA of all default and pre-installed passwords, permissions, and capabilities of user, service, and system accounts, groups, and roles.		
D. Environmental Requirements			
D1.	The Contractor's Solution must operate in ambient relative humidity up to 100% for outdoors and indoors.		
D2.	The Contractor's Solution must operate in ambient temperatures ranging from -40C to +50C.		
D3.	All equipment enclosures provided by the Contractor for the Contractor's Solution must be secured using weatherproof locks or tamperproof screws.		
D4.	The Contractor's Solution must not interfere		

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NO #	Mandatory Criteria	Substantiation	Reference
	with any wireless access points or other radio devices near or at the CBSA Primary Inspection Lane (PIL).		
D5.	All outdoor components of the Contractor's Solution must at a minimum be in a secure, environmentally-controlled enclosures made of stainless steel or plastic weatherproof panels that meet the National Electrical Manufacturers Association (NEMA) 4X standard. The Contractor's Solution must include written attestation at time of bid closing that all enclosures are built with weatherproof panels meet the National Electrical Manufacturers Association (NEMA) 4X standard.		
D6.	The Contractor's Solution equipment must be able to operate 24 hours per day, 7 days per week, 365 days per year under all Canadian weather conditions (direct sun, rain, freezing rain, snow, fog, ice, lightning strikes, blowing dust, road salt, etc.), with no interruption except for scheduled maintenance.		
D7.	The Contractor's Solution equipment must at a minimum withstand steady winds of 50 km/hour and gusts of up to 160 km/hour including all exposed hardware/cabling components and the Secure/Environmentally Controlled Enclosure.		
E. Laboratory Installation Requirements			
E1.	The Contractor must provide a solution that is no greater than 5' by 5' by 10' (wxdxh) in size suitable for installation in a confined space within an indoor laboratory setting (see Appendix E - Plate Styles linked to Specific Sites for list of indoor lab locations and Annex C – Deployment Schedule). This is based on the plate being located 15 to 20 feet away from the camera.		

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NO #	Mandatory Criteria	Substantiation	Reference
	Please note: In the case of the units of the Contractor Solution which are provided for installation in the laboratory they do not need to meet requirements D1 through to D7 inclusive.		
F. Network Access Control (NAC) Requirements			
F1.	The Contractor's Solution must include a device that provides NAC functionality in each lane.		
F2.	The Contractor's NAC must be configured by CBSA to NAC functionality to use DHCP to obtain its IP address AND to use static IP. Both options must be available to CBSA.		
F3.	The Contractor's NAC must control all LPR and RFID components using the identification, authentication, and authorization services provided by the CBSA's network infrastructure (refer to Appendix C - Technical Infrastructure).		
F4.	The Contractor's NAC must function as a boundary protection device that through a built-in mechanism (e.g. proxy, gateway, firewall, router) based on rule sets or configuration settings that CBSA can administer provides control for all incoming and outgoing network LPR and RFID traffic, restricting and/or routing them through the NAC first.		
F5.	The device which provides NAC functionality must function as a native member of the existing managed base of client devices (refer to Appendix C - Technical Infrastructure).		
F6.	The NAC must be compliant with Microsoft Security Compliance Manager.		
F7.	The Contractor's NAC component must permit Windows login for a domain account.		
F8.	The Contractor's NAC component must be capable of leveraging domain based credentials for any services running on the NAC device. The solution must not require local accounts		

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NO #	Mandatory Criteria	Substantiation	Reference
	beyond initial setup.		
F9.	The Contractor's NAC component must be capable of setting any initial local login passwords during and subsequent to initial setup.		
F10.	The Contractor's NAC component must be capable of locking out login attempts after 3 failed login attempts on any local account.		
F11.	The Contractor's Solution must be able to audit actions performed by users or system accounts. The logs must be accessible for review and reporting purposes. Specific records to be captured at a minimum are: i. Workstation ID; ii. System ID; iii. User ID; iv. Date and Time; v. Action (ex. configuration changed, data changed, account changed); vi. Success Code.		
F12.	The NAC must be capable of providing for management through secure connections that utilize at a minimum one of the following: • An Internet Protocol Security (IPsec) Request for Comments (RFC) 1826, RFC 1827) connection; • Transport Layer Security (TLS) v1.1 or higher with Secure Socket Layer (SSL) v3.0 or higher protocols; and/or • Secure Shell (SSH) v2.0 or higher.		

LPR Solution Mandatory Requirements

Each License Plate Reader Solution must meet the following specification:

No.	Criteria	Substantiation	Reference
G. General Specification (LPR Specific Requirements)			
G1.	The Contractor's Solution must be able to read		

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No.	Criteria	Substantiation	Reference
	all Canadian and American license plates for licensed passenger vehicles (see Appendix E – Plate Styles linked to Specific Sites and Appendix H - Glossary and Definitions) entering Canada and transmit these plates to the CBSA application on the CBSA's network infrastructure. This criteria is based on reading rear license plates only.		
G2.	The Contractor's Solution must generate the following sequence of LPR events for each conveyance: a) A PLATE READ event with the plate's text interpretation for successful reads or a NO PLATE READ event or a NO PLATE FOUND event for unsuccessful reads; b) A PLATE IMAGE event with the cropped license plate image for successful reads or an un-cropped image for unsuccessful reads; and c) These events must be linked with the same unique transaction ID. Refer to Appendix G – Event Schemas for the event specifications.		
G3.	The Contractor's Solution must detect all conveyances passing through the lane, even those without readable passenger vehicle license plates. Readable plates are license plates that are not obstructed, obscured or damaged (see Appendix H - Glossary and Definitions).		
G4.	The Contractor's Solution must generate a cropped image of the license plate for successful reads that meets the following criteria at a minimum: i. The size of the image presented to the CBSA's network infrastructure must not		

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No.	Criteria	Substantiation	Reference
	exceed 10kb; ii. The image must be retrievable in JPG format; iii. The image presented from a "plate only" read will consist of just the plate area; iv. The license plate must be identifiable when the image is viewed from a standard LCD monitor; v. The cropped image resolution must be 96dpi; and vi. The dimensions of the cropped image must be a minimum of 350x130 and no more than a maximum of 670x250.		
G5.	The Contractor's Solution must generate an un-cropped image of the vehicle for all unsuccessful reads (no-read and no-plate events) that meets the following criteria at a minimum: i. The size of the image presented to the CBSA's network infrastructure must not exceed 50kb; ii. The image must be retrievable in JPG format; and iii. The dimensions (must be a minimum of 768x280 and a maximum of 1500x550		
G6.	The text interpretation from the Contractor's Solution must be captured, processed and initiate the transmission to CBSA less than 0.5 seconds (500 milliseconds) after the read if read properly and the Contractor's Solution must initiate the transmission of the cropped image of the plate within 0.5 seconds (500 milliseconds) after the text interpretation message has been sent if read improperly as defined in the messaging details of Appendix G.		
G7.	The Contractor's Solution must initiate the transmission of un-cropped image of the plate within 0.5 seconds (500 milliseconds) after the text interpretation message has been sent.		
G8.	The Contractor's Solution must read retro reflective and non-retro reflective license		

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No.	Criteria	Substantiation	Reference
	plates anytime over a 24 hour period.		
G9.	The Contractor's Solution must be able to read license plates in any lighting conditions ranging from full sun to the complete absence of light. A light source such as a strobe may form part of the Solution in order to satisfy this requirement. Should a light source form part of the Solution, it must not distract drivers of conveyances in or around the lane in which it is installed.		
G10.	The Contractor's Solution must be able to read license plates in conveyances travelling up to 50km per hour.		
G11.	The LPR camera housing of the Contractor's Solution must be designed to allow for camera configuration without disturbing the camera alignment.		

RFID Solution Mandatory Requirements

Each RFID Reader Solution must meet the following specification:

NO #	Mandatory Criteria	Substantiation	Reference
H. General Specification (RFID Specific Requirements)			
H1.	The Contractor's Solution must transmit unique identifier tags to the CBSA application interface for processing in less than or equal to 0.5 seconds after tags are read within the antenna read zone. When the RFID Solution is installed in-lane or at the booth, the Contractor's Solution must be ready to transmit unique identifier tags to the CBSA application interface for processing in less than or equal to 0.5 seconds of the read when tags are detected in the antennae read zone.		

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NO #	Mandatory Criteria	Substantiation	Reference
H2.	The Contractor's Solution must include the functionality to extract unique identifier tags when presented under different formations (i.e. stacked, fanned) while the vehicle is positioned within the antenna read zone.		
H3.	The Contractor's Solution must include the functionality to extract a minimum of 15 unique identifier tags from a series of RFID enabled documents in one second.		
H4.	The Contractor's Solution must: a) include the functionality to read all RFID enabled documents/cards that include Generation 2 RFID tags; b) support (at a minimum) the following protocol: EPC Global Class 1 Generation 2, also known as ISO 18000-6C; c) filter reads to exclude RFID tags from non-travel documents (for example, retail tags in merchandise, toll road pass cards, etc.); and d) include the functionality to provide the entire RFID tag EPC value (96 bits) to the CBSA's network infrastructure.		
H5.	The Contractor's Solution must include the functionality to read cards through a closed, partially opened, or opened conveyance window, including at a minimum, the following variations of glass: i. tinted; ii. clear; and iii. bullet-proof (unless reinforced with metal wire).		
H6.	The Contractor's Solution must ensure that each of its RFID readers generate the following		

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NO #	Mandatory Criteria	Substantiation	Reference

	sequence of events:
	   a) START READ event when a conveyance enters its antenna read zone;
	   b) TAG READ events for the first read of each unique RFID tag found in the read zone; and
	   c) END READ event when the conveyance exits the antenna read zone.
	These events must be linked with the same unique transaction ID.
	
	Refer to Appendix G – Event Schemas.		

H7.	The Contractor's Solution must ensure that each of its RFID readers is only scanning for tags when a conveyance is within its respective antenna read zone; it must not be scanning otherwise.		
H8.	The Contractor's Solution must only detect RFID enabled documents within the targeted primary lane and will not detect RFID enabled documents located within vehicles in adjacent lanes or within consecutive conveyances of the same lane.		

H9.	The Contractor's Solution must include a digital indicator that will display to travellers the number of RFID cards read in the conveyance, while within the read zone. The count must be cleared as soon as the conveyance exits the read zone.
	
	The digital indicator must:
	   i) incorporate a minimum screen size of 5" x 8";
	   ii) provide a count up to 99 (i.e. two digits);		

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NO #	Mandatory Criteria	Substantiation	Reference
	iii) display a count of travel documents captured in the read zone and exclude from the count any non-travel documents (for example, retail tags in merchandise, toll road pass cards, etc.); iv) not require the construction of an additional bollard; and v) must be mounted/bracketed/installed with the Contractor's RFID Solution in a manner that will enable travellers to visualize a count whilst displaying an RFID document within the read zone. The display digits of the digital indicator must: i) be visible to travellers 24 hours per day under all weather and lighting conditions (i.e. direct sunlight on the display); ii) be, at a minimum, 4.5" tall. *Note: A digital indicator is not required for (and must not be included with) any installations of the Contractor's Solution at the inspection booth.*		

LPR Corporate Mandatory Criteria

Note: All LPR corporate mandatory requirements must be compliant with a single party in a multiple party bid.

No.	Criteria	Substantiation	Reference
I1.	The designated party in the bid to provide LPR functionality as a corporate entity must have in the last five (5) years delivered, installed, configured and deployed to two (2) different		

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	organizations a minimum of twenty-five (25) license plate reader (LPR) solutions. The detail must be provided in the Technical Proposal and include for each project that is cited as experience, the following information: a) The name of the client organization (to whom the services were provided); b) The name, title, telephone number and e-mail address of the Project Authority; c) A brief description of the type and scope of services that meets the identified criteria; d) The dates and duration of the project (indicating the years/months of engagement and the start and end dates of the work); and e) The details to demonstrate the meeting of sub criteria identified above.		
I2.	The designated party in the bid to provide LPR functionality as a corporate entity must have in the last five (5) years provided at least two (2) different organizations with Maintenance and Technical Support in at least ten (10) locations. The detail must be provided in the Technical Proposal and include for each project that is cited as experience, the following information: a) The name of the client organization (to whom the services were provided); b) The name, title, telephone number and e-mail address of the Project Authority; c) A brief description of the type and scope of services that meets the identified criteria; d) The dates and duration of the project		

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	(indicating the years/months of engagement and the start and end dates of the work); and		
	e) The details to demonstrate the meeting of sub criteria identified above.		

RFID Corporate Mandatory Criteria

Note: All RFID corporate mandatory requirements must be compliant with a single party in a multiple party bid.

NO #	Mandatory Criteria	Substantiation	Reference

J1.	The designated party in the bid to provide the RFID solution as a corporate entity must have in the last five (5) years delivered, installed, configured and deployed to two (2) different organizations of which one (1) must be for a public sector client a minimum of twenty five (25) radio frequency identification devices for each organization. To be compliant the twenty five (25) devices must be located at a minimum in two (2) sites. The detail must be provided in the Technical Proposal and include for each project that is cited as experience, the following information:
	  a. The name of the client organization (to whom the services were provided);
	  b. The name, title, telephone number and e-mail address of the Project Authority;
	  c. A brief description of the type and scope of services that meets the identified criteria;
	  d. The dates and duration of the project (indicating the years/months of engagement and the start and end dates of the work); and
	  e. The details to demonstrate the meeting of sub criteria identified above.		

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NO #	Mandatory Criteria	Substantiation	Reference

J2.	The Contractor/Bidder as a corporate entity must have in the last five (5) years maintained for a minimum of a one year period a minimum of twenty five (25) radio frequency identification devices each on behalf of at least two different clients. To be compliant the maintenance must include return to depot service, the devices must have at least a 95% monthly availability rate and the devices must be located at a minimum in two (2) different sites for each client.
	
	The detail must be provided in the Technical Proposal and include for each project that is cited as experience, the following information:
	  a. The name of the client organization (to whom the services were provided);
	  b. The name, title, telephone number and e-mail address of the Project Authority;
	  c. A brief description of the type and scope of services that meets the identified criteria;
	  d. The dates and duration of the project (indicating the years/months of engagement and the start and end dates of the work); and
	  e. The details to demonstrate the meeting of sub criteria identified above.		

J3.	The Contractor/Bidder as a corporate entity must have in the last five (5) years provided at least one (1) organization with site preparation services for an RFID Solution. To be compliant the site preparation services must include at a minimum the development of design documents detailing the equipment listing, equipment housing requirements, cabling requirements, power requirements, tailoring requirements to accommodate the existing lane geometry, the		

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NO #	Mandatory Criteria	Substantiation	Reference
	physical placement of equipment, signage, bollard, cables, conduit runs, electrical breakout boxes, mounting and protective posts and any constraints of the design. The detail must be provided in the Technical Proposal and include for each project that is cited as experience, the following information: a. The name of the client organization (to whom the services were provided); b. The name, title, telephone number and e-mail address of the Project Authority; c. A brief description of the type and scope of services that meets the identified criteria; d. The dates and duration of the project (indicating the years/months of engagement and the start and end dates of the work); and e. The details to demonstrate the meeting of sub criteria identified above.		

Contract Number / Numéro du contrat

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Security Classification / Classification de sécurité

UNCLASSIFIED

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 ISTB

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

Procurement of LPR and RFID technology under the Beyond the Border Action Plan.

	No/Non	Yes/Oui
5. a) Will the supplier require access to Controlled Goods? Le fournisseur aura-t-il accès à des marchandises contrôlées?	✓ No/Non	Yes/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?	✓ No/Non	Yes/Oui

6. Indicate the type of access required - Indiquer le type d'accès requis

	No/Non	Yes/Oui
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)	No/Non	✓ Yes/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.	✓ No/Non	Yes/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 commerciales sans entreposage de nuit?	✓ No/Non	Yes/Oui

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	✓	NATO / OTAN		Foreign / Étranger	

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

No release restrictions Aucune restriction relative à la diffusion	✓	All NATO countries Tous les pays de l'OTAN		No release restrictions Aucune restriction relative à la diffusion	
Not releasable À ne pas diffuser					
Restricted to: / Limité à :		Restricted to: / Limité à :		Restricted to: / Limité à :	
Specify country(ies): / Préciser le(s) pays :		Specify country(ies): / Préciser le(s) pays :		Specify country(ies): / Préciser le(s) pays :	

7. c) Level of information / Niveau d'information

PROTECTED A PROTÉGÉ A		NATO UNCLASSIFIED NATO NON CLASSIFIÉ		PROTECTED A PROTÉGÉ A	
PROTECTED B PROTÉGÉ B	✓	NATO RESTRICTED NATO DIFFUSION RESTREINTE		PROTECTED B PROTÉGÉ B	
PROTECTED C PROTÉGÉ C		NATO CONFIDENTIAL NATO CONFIDENTIEL		PROTECTED C PROTÉGÉ C	
CONFIDENTIAL CONFIDENTIEL		NATO SECRET NATO SECRET		CONFIDENTIAL CONFIDENTIEL	
SECRET SECRET		COSMIC TOP SECRET COSMIC TRÈS SECRET		SECRET SECRET	
TOP SECRET TRÈS SECRET				TOP SECRET TRÈS SECRET	
TOP SECRET (SIGINT) TRÈS SECRET (SIGINT)				TOP SECRET (SIGINT) TRÈS SECRET (SIGINT)	

Security Classification / Classification de sécurité

Canada

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Security Classification / Classification de sécurité

UNCLASSIFIED

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?
If Yes, indicate the level of sensitivity:
Dans l'affirmative, indiquer le niveau de sensibilité :

☑ No / Non   ☐ Yes / Oui

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   ☐ Yes / Oui

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

☑ RELIABILITY STATUS COTE DE FIABILITÉ
☐ CONFIDENTIAL CONFIDENTIEL
☐ SECRET SECRET
☐ TOP SECRET TRÈS SECRET

☐ TOP SECRET - SIGINT TRÈS SECRET - SIGINT
☐ NATO CONFIDENTIAL NATO CONFIDENTIEL
☐ NATO SECRET NATO SECRET
☐ COSMIC TOP SECRET COSMIC TRÈS SECRET

☐ SITE ACCESS ACCÈS AUX EMPLACEMENTS

Special comments: Access to CBSA Ports of Entry will be required at times for initial installation, maintenance, and
Commentaires spéciaux : equipment replacement

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   ☐ Yes / Oui

If Yes, will unscreened personnel be escorted:
Dans l'affirmative, le personnel en question sera-t-il escorté?

☐ No / Non   ☐ Yes / Oui

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   ☐ Yes / Oui

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   ☐ Yes / Oui

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   ☐ Yes / Oui

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   ☐ Yes / Oui

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   ☐ Yes / Oui

Security Classification / Classification de sécurité

Canada

Contract Number / Numéro du contrat

100031 7075

Security Classification / Classification de sécurité

UNCLASSIFIED

PART C (continued) / PARTIE C (suite)

For users completing the form manually use the summary chart below to indicate the category(ies) and level(s) of safeguarding required at the supplier's site(s) or premises.
Les utilisateurs qui remplissent le formulaire manuellement doivent utiliser le tableau récapitulatif ci-dessous pour indiquer, pour chaque catégorie, les niveaux de sauvegarde requis aux installations du fournisseur.

For users completing the form online (via the Intenet), the summary chart is automatically populated by your responses to previous questions.
Dans le cas des utilisateurs qui remplissent le formulaire en ligne (par Internet), les réponses aux questions précédentes sont automatiquement saisies dans le tableau récapitulatif.

SUMMARY CHART / TABLEAU RÉCAPITULATIF

Category Catégorie	PROTECTED PROTÉGÉ			CLASSIFIED CLASSIFIÉ			NATO				COMSEC					
	A	B	C	Confidential Confidentiel	Secret	Top Secret / Très Secret	NATO Restricted / NATO Diffusion Restreinte	NATO Confidential / NATO Confidentiel	NATO Secret	COSMIC Top Secret / COSMIC Très Secret	Protected Protégé			Confidential Confidentiel	Secret	Top Secret / Très Secret
											A	B	C			
Information / Assets Renseignements / Biens	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Production	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
IT Media Support TI	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
IT Link Lien électronique	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

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 PROTÉGÉ et/ou CLASSIFIÉE?   ☑ No Non   ☐ Yes Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification".
Dans l'affirmative, classifier le présent formulaire en indiquant le niveau de sécurité dans la case intitulée.

12. b) Will the document attached to this SRCL be PROTECTED and/or CLASSIFIED?
La documentation associée à la présente LVERS sera-t-elle PROTÉGÉE et/ou CLASSIFIÉE?   ☑ No Non   ☐ Yes Oui

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, classifier 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).

Security Classification / Classification de sécurité

Canada

Government of Canada / Gouvernement du Canada

Contract Number / Numéro du contrat

1000317075

Security Classification / Classification de sécurité

UNCLASSIFIED

PART D - AUTHORIZATION / PARTIE D - AUTORISATION

13. Organization Project Authority / Chargé de projet de l'organisme

Name (print) - Nom (en lettres moulées)	Title - Titre	Signature
Chris Murray	Manager - IT RFP & Software Procurement	Chris Murray

Telephone no. - N° de téléphone	Facsimile - Télécopieur	E-mail address - Adresse courriel	Date
(613) 796-7383		Chris.Murray@cbsa-asfc.gc.ca	2013-09-13

14. Organization Security Authority / Responsable de la sécurité de l'organisme

Name (print) - Nom (en lettres moulées)	Title - Titre	Signature
ANDRÉ Dubé	MANAGER	A. Dubé

Telephone no. - N° de téléphone	Facsimile - Télécopieur	E-mail address - Adresse courriel	Date
613-960-3402	613-941-6105	Andre.Dube@cbsa.gc.ca	2013-12-20

15. Are there additional instructions (e.g. Security Guide, Security Classification Guide) attached?
Des instructions supplémentaires (p. ex. Guide de sécurité, Guide de classification de la sécurité) sont-elles jointes?

☐ No / Non   ☐ Yes / Oui

16. Procurement Officer / Agent d'approvisionnement

Name (print) - Nom (en lettres moulées)	Title - Titre	Signature
Benoit Guertin	Supply Specialist	

Telephone no. - N° de téléphone	Facsimile - Télécopieur	E-mail address - Adresse courriel	Date
819-956-4479	819-953-4944	benoit.guertin@pwgsc.gc.ca	2014-01-24

17. Contracting Security Authority / Autorité contractante en matière de sécurité

Name (print) - Nom (en lettres moulées)	Title - Titre	Signature
		Jill Mahon

Telephone no. - N° de téléphone	Facsimile - Télécopieur	E-mail address - Adresse courriel	Date
948-1659			Jan 07/2014

Jill Mahon
Contract Security Officer, Contract Security Division
Jill.Mahon@tpsgc-pwgsc.gc.ca
Tel/Tél - 613-960-0464 / Fax/Téléc - 613-954-4171

TBS/SCT 350-103 (2004/12)

Security Classification / Classification de sécurité

Canada