



**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:**

**Bid Receiving - PWGSC / Réception des
soumissions - TPSGC**

11 Laurier St. / 11, rue Laurier

Place du Portage, Phase III

Core 0B2 / Noyau 0B2

Gatineau

Quebec

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

Vendor/Firm Name and Address

Raison sociale et adresse du

fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Systems Software Procurement Division / Division des
achats des logiciels d'exploitation

11 Laurier St. / 11 rue, Laurier

4C1, Place du Portage, Phase III

Gatineau

Quebec

K1A 0S5

Title - Sujet CENSUS PROGRAM DATA VIEWER		
Solicitation No. - N° de l'invitation 45045-140073/E		Date 2016-08-26
Client Reference No. - N° de référence du client 000006399		
GETS Reference No. - N° de référence de SEAG PW-\$SEE-017-30421		
File No. - N° de dossier 017ee.45045-140073	CCC No./N° CCC - FMS No./N° VME	
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-10-11		Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>		
Address Enquiries to: - Adresser toutes questions à: Lessard, Peter		Buyer Id - Id de l'acheteur 017ee
Telephone No. - N° de téléphone (819) 956-5846 ()		FAX No. - N° de FAX (819) 953-3703
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Specified Herein Précisé dans les présentes		

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	
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

Solicitation No. - N° de l'invitation
45045-140073/E

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
017ee

Client Ref. No. - N° de réf. du client
45045-140073

File No. - N° du dossier
017ee45045-140073

CCC No./N° CCC - FMS No./N° VME

1. This page is replaced by the ABE cover sheet issued by PWGSC.

BID SOLICITATION

VISUALLY STATISTICALLY INTELLIGENT ADAPTIVE DATA VIEWING SOLUTION

FOR

STATISTICS CANADA

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BID SOLICITATION
VISUALLY STATISTICALLY INTELLIGENT ADAPTIVE DATA VIEWING SOLUTION
FOR
STATISTICS CANADA

THIS BID SOLICITATION CANCELS AND SUPERSEDES PREVIOUS BID SOLICITATION NUMBER 45045-140073/C DATED 2016-06-13 WITH A CLOSING OF 2016-08-05 AT 02:00 PM.

Notice to Bidders: National Security Exception (NSE) Notice

The national security exceptions provided for in the trade agreements to which Canada is a party, current and future, have been invoked with respect to the Supply Chain Integrity Process of this procurement. The Supply Chain Integrity Process, described in Annex D - Supply Chain Security Information Assessment Process, includes all measures that will be used to assess the bidders and their solutions for security vulnerabilities during the solicitation process and continued obligations imposed during the resulting contract period. Therefore, the requirements and procedures of the Supply Chain Integrity Process portion of this procurement are excluded from all of the obligations of the trade agreements, for each and all purposes.

Note to Bidders: Supply Chain Integrity Information

This bid solicitation contains a security requirement in relation to the supply chain of the Bidders to provide this information to Canada, see Section 3.7 of Part 3 - Bid Preparation Instructions for additional information on the integrity assessment of bidders' supply chain security information.

PART 1 - GENERAL INFORMATION

1.1 Introduction

The bid solicitation is divided into seven parts plus attachments and annexes as follows:

- Part 1** General Information: provides a general description of the requirement;
- Part 2** Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;
- Part 3** Bid Preparation Instructions: provides Bidders with instructions on how to prepare their bid;
- Part 4** Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, if applicable, and the basis of selection;
- Part 5** Certifications: includes the certifications to be provided;
- Part 6** Security, Financial and Other Requirements: includes specific requirements that must be addressed by Bidders; and
- Part 7** Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

Refer to the Table of Contents for the list of annexes and attachments and forms.

1.2 Summary

- (a) This bid solicitation is a re-tender of the requirement described in bid solicitation number 45045-140073/C dated 2016-06-13 with a bid closing date of 2016-08-05 at 02:00 PM; this document replaces the previous version entirely.
- (b) Bidders submitting a proposal are advised that they must not rely on any information previously provided in the context of bid solicitation number 45045-140073/C dated 2016-06-13 with a bid closing date of 2016-08-05 at 02:00 PM.
- (c) This bid solicitation is being issued to satisfy the requirement of Statistics Canada (the "**Client**") for a data visualization solution that will make statistical information more interpretable by creating and presenting key statistical indicators via web based presentation layers, also herein referred to as the *SOLUTION*. It is intended to result in the award of a contract for 1 year, plus 5 one-year irrevocable options allowing Canada to extend the term of the contract.
- (d) Canada has an initial requirement for a *SOLUTION* comprising of any proposed Licensed Software, Custom Software required for the *SOLUTION* to meet the Software Requirement Specification (SRS) identified in Annex A, any Licences to use the Custom Software forming part of the Solution and any Work required to deliver the *SOLUTION*. The requirement also includes granting of the licenses to use Licensed Software included in the *SOLUTION*, a 12-month warranty starting from Final Acceptance of the *SOLUTION*, Software Maintenance and Support of the *SOLUTION*, and documentation, including Technical Documentation deliverables. Training and professional services must also be provided under a task authorization, as and when requested. All parts of the *SOLUTION* must be available to unlimited *END USERS* and 50 *GC USERS*, 24 hours a day, 7 days a week, 365 days a year, in English and/or French, and operate at all times in accordance with the Software

Requirement Specification (SRS) in the Client's operational environment described in the bid solicitation at *Annex A to Part 7 - Resulting Contract Clauses*.

- (e) The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), the Canada-Chile Free Trade Agreement (CCFTA), the Canada-Peru Free Trade Agreement (CPFTA), the Canada-Colombia Free Trade Agreement (CColFTA), the Canada-Panama Free Trade Agreement (CPanFTA) if it is in force, and the Agreement on Internal Trade (AIT).

The Federal Contractors Program (FCP) for employment equity applies to this procurement: see Part 5 - Certifications, Part 7 - Resulting Contract Clauses and the form titled "Federal Contractors Program for Employment Equity - Certification".

1.3 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 from receipt of the results of the bid solicitation process. The debriefing may be provided in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

- (a) 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.
- (b) 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.
- (c) The 2003 (2016-04-04) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation. If there is a conflict between the provisions of 2003 and this document, this document prevails.
- (d) Subsection 4 of Section 05, Submission of bids of 2003 - Standard Instructions - Goods or Services - Competitive Requirements is amended as follows:
 - (i) Delete: 60 days
 - (ii) Insert: 120 days
- (e) Section 08, Transmission by facsimile of 2003 - Standard Instructions - Goods or Services - Competitive Requirements incorporated by reference above is deleted in its entirety and replaced with the following:

"1. Due to the nature of the bid solicitation, bids transmitted by facsimile or electronic mail to PWGSC will **not** be accepted."
- (f) Subsection 3 of Section 17, Joint Venture of 2003 - Standard Instructions - Goods or Services - Competitive Requirements incorporated by reference above is deleted in its entirety and replaced with the following:

"3. The bid must be signed by all members of the joint venture unless one member has been appointed to act on behalf of all members of the joint venture. The Contracting Authority may, at any time, require each member of the joint venture to confirm that the representative has been appointed with full authority to act as its representative for the purposes of the bid solicitation and any resulting contract. If a contract is awarded to a joint venture, all members of the joint venture will be jointly and severally or solidarily liable for the performance of any resulting contract. All members of the joint venture must sign the resulting contract.

4. Certifications: Except where expressly provided otherwise, any certifications required to be made by the Bidder must be made by each member of the joint venture; however, the representative member may sign the certification on behalf of the joint venture.

5. Employment Equity Requirement for joint venture Bidder: Each member of a joint venture Bidder must satisfy the requirements described in the Article entitled "Federal Contractors Program for Employment Equity - \$1M or more" and must provide a signed certification in that respect."

2.2 Submission of Bids

- (a) 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.

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

2.3 Former Public Servant

- (a) Contracts awarded to former public servants (FPS) in receipt of a pension or of a lump sum payment must bear the closest public scrutiny, and reflect fairness in the spending of public funds. In order to comply with Treasury Board policies and directives on contracts awarded to FPS, bidders must provide the information required below before contract award. If the answer to the questions and, as applicable the information required have not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to comply with Canada's request and meet the requirement within the prescribed time frame will render the bid non-responsive.

(b) **Definitions**

For the purposes of this clause, "former public servant" is any former member of a department as defined in the [Financial Administration Act](#), R.S., 1985, c. F-11, a former member of the Canadian Armed Forces or a former member of the Royal Canadian Mounted Police. A former public servant may be:

- (i) an individual;
- (ii) an individual who has incorporated;
- (iii) a partnership made of former public servants; or
- (iv) a sole proprietorship or entity where the affected individual has a controlling or major interest in the entity.

"lump sum payment period" means the period measured in weeks of salary, for which payment has been made to facilitate the transition to retirement or to other employment as a result of the implementation of various programs to reduce the size of the Public Service. The lump sum payment period does not include the period of severance pay, which is measured in a like manner.

"pension" means a pension or annual allowance paid under the [Public Service Superannuation Act](#) (PSSA), R.S., 1985, c.P-36, and any increases paid pursuant to the [Supplementary Retirement Benefits Act](#), R.S., 1985, c.S-24 as it affects the PSSA. It does not include pensions payable pursuant to the [Canadian Forces Superannuation Act](#), R.S., 1985, c.C-17, the [Defence Services Pension Continuation Act](#), 1970, c.D-3, the [Royal Canadian Mounted Police Pension Continuation Act](#), 1970, c.R-10, and the [Royal Canadian Mounted Police Superannuation Act](#), R.S., 1985, c.R-11, the [Members of Parliament Retiring Allowances Act](#), R.S., 1985, c.M-5, and that portion of pension payable to the [Canada Pension Plan Act](#), R.S., 1985, c.C-8.

(c) **Former Public Servant in Receipt of a Pension**

As per the above definitions, is the Bidder a FPS in receipt of a pension? **Yes () No ()**

If so, the Bidder must provide the following information, for all FPS in receipt of a pension, as applicable:

- (i) name of former public servant;
- (ii) date of termination of employment or retirement from the Public Service.

By providing this information, Bidders agree that the successful Bidder's status, with respect to being a former public servant in receipt of a pension, will be reported on departmental websites as part of the published proactive disclosure reports in accordance with [Contracting Policy Notice](#): 2012-2 and the [Guidelines on the Proactive Disclosure of Contracts](#).

(d) **Work Force Adjustment Directive**

Is the Bidder a FPS who received a lump sum payment pursuant to the terms of the Work Force Adjustment Directive? **Yes () No ()**

If so, the Bidder must provide the following information:

- (i) name of former public servant;
- (ii) conditions of the lump sum payment incentive;
- (iii) date of termination of employment;
- (iv) amount of lump sum payment;
- (v) rate of pay on which lump sum payment is based;
- (vi) period of lump sum payment including start date, end date and number of weeks;
- (vii) number and amount (professional fees) of other contracts subject to the restrictions of a work force adjustment program.

For all contracts awarded during the lump sum payment period, the total amount of fees that may be paid to a FPS who received a lump sum payment is \$5,000, including Applicable Taxes.

2.4 Enquiries - Bid Solicitation

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

The Contracting Authority for this Solicitation is:

Mr. Peter Lessard

Public Works and Government Services Canada

Software and Shared Systems Procurement Directorate

Telephone: 819-420-2220

E-mail: peter.lessard@tpsgc-pwgsc.gc.ca

- (b) 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(s) is eliminated and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.5 Applicable Laws

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

Note to Bidders: Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of its choice without affecting the validity of its bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of its choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidder. Bidders are requested to indicate the Canadian province or territory they wish to apply to any resulting contract in their Bid Submission Form (Attachment 3.1).

2.6 Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications or Software Requirement Specifications (SRS) contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reasons for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority in accordance with the article entitled "Enquiries - Bid Solicitation". Canada will have the right to accept or reject any or all suggestions.

2.7 Dictionary of Terms & Acronyms

- (a) Specifically defined terms and acronyms used in this bid solicitation are defined in the Dictionary of Terms and Acronyms found in Section 8 to Annex A to Part 7 - Resulting Contract Clauses.
- (b) In each case, words and phrases defined in the Dictionary are shown in UPPERCASE and *Italics* when used in this bid solicitation.
- (c) Words that are not UPPERCASE and *Italics* have standard definitions as defined in the Oxford Concise English Dictionary (version in effect on date of release of this bid solicitation).

2.8 Non-Disclosure Agreement

By submitting a response, the Bidder agrees to the terms of the non-disclosure agreement below (the "Non-Disclosure Agreement"):

- (a) The Bidder agrees to keep confidential any information it receives from Canada regarding Canada's assessment of the Bidder's Supply Chain Security Information Assessment Process (the "Sensitive Information") including, but not limited to, which aspect of the Supply Chain Security Information Assessment Process is subject to concern, and the reasons for Canada's concerns.
- (b) Sensitive Information includes, but is not limited to, any documents, instructions, guidelines, data, material, advice or any other information whether received orally, in printed form or otherwise and whether or not that information is labeled as classified, proprietary or sensitive.
- (c) The Bidder agrees that it will not reproduce, copy, divulge, release or disclose, in whole or in part, in whatever way or form any Sensitive Information to any person other than a person employed by the Bidder who has a security clearance commensurate with the level of Sensitive Information being accessed, without the prior written consent of the Contracting Authority. The

Bidder agrees to immediately notify the Contracting Authority if any person, other than those permitted by this Article, accesses the Sensitive Information at any time.

- (d) All Sensitive Information will remain the property of Canada and must be returned to the Contracting Authority or destroyed, at the option of the Contracting Authority, if requested by the Contracting Authority, within 30 days following that request.
- (e) The Bidder agrees that a breach of this Non-Disclosure Agreement may result in disqualification of the Bidder at RFP stage, or immediate termination of the resulting Contract. The Bidder also acknowledges that a breach of this Non-Disclosure Agreement may result in a review of the Bidder's security clearance and review of the Bidder's status as an eligible bidder for other requirements.
- (f) This Non-Disclosure Agreement remains in force indefinitely.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Proposal Structure

- (a) Canada requests that the Bidders provide their bid as per the following proposal structure:
 - (i) Volume I: Technical Proposal
 - (A) Part A: Technical bid
 - (B) Part B: Management bid
 - (ii) Volume II: Financial Proposal
 - (iii) Volume III: Certifications
 - (iv) Volume IV: Supply Chain Security Information Assessment Process

3.2 Bid Preparation Instructions

- (a) **Copies of Bid:** Canada requests that Bidders provide their bid in separately bound Volumes as follows:
 - (i) Volume I: Technical Bid (3 hard copies and 8 soft copies on CD or DVD in a format accessible by Canada)
 - (ii) Volume II: Financial Bid (2 hard copies and 1 soft copies on CD or DVD in a format accessible by Canada)
 - (iii) Volume III: Certifications (2 hard copies and 1 soft copies on CD or DVD in a format accessible by Canada)
 - (iv) Volume IV: Supply Chain Security Information Assessment Process (2 hard copies and 1 soft copy on CD or DVD or USB key in a format accessible by Canada)

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

Prices should appear in the financial bid only. Prices should not be indicated in any other section of the bid.

Formats of electronic documents accessible by Canada include PDF format. For the Volume II and Volume IV submission forms, the Bidders are requested to use the provided MS Excel® documents provided in Part 4. All electronic copies should include only one copy of the requested documents and be free of password protection.

- (b) **Format for Bid:** Canada requests that Bidders follow the format instructions described below in the preparation of their bid:
 - (i) use 8.5 x 11 inch (216 mm x 279 mm) paper;
 - (ii) use a numbering system that corresponds to the bid solicitation;

-
- (iii) include a title page at the front of each volume of the bid that includes the title, date, bid solicitation number, bidder's name and address and contact information of its representative; and
- (iv) include a table of contents for each volume.
- (c) **Canada's Policy on Green Procurement:** 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 should:
- (i) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- (ii) 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.
- (d) **Submission of Only One Bid:**
- (i) A Bidder, including related entities, will be permitted to submit only one bid in response to this bid solicitation. If a Bidder or any related entities participate in more than one bid (participating means being part of the Bidder, not being a subcontractor), Canada will provide those Bidders with 2 working days to identify the single bid to be considered by Canada.
- (ii) For the purposes of this Article, regardless of the jurisdiction where any of the entities concerned is incorporated or otherwise formed as a matter of law (whether that entity is a natural person, corporation, partnership, etc.), an entity will be considered to be **"related"** to a Bidder if:
- (A) they are the same legal entity (i.e., the same natural person, corporation, partnership, limited liability partnership, etc.);
- (B) they are "related persons" or "affiliated persons" according to the *Canada Income Tax Act*;
- (C) the entities have now or in the two years before bid closing had a fiduciary relationship with one another (either as a result of an agency arrangement or any other form of fiduciary relationship); or
- (D) the entities otherwise do not deal with one another at arm's length, or each of them does not deal at arm's length with the same third party.
- (iii) Individual members of a joint venture cannot participate in another bid, either by submitting a bid alone or by participating in another joint venture.
- (e) **Joint Venture Experience:**
- (i) Where the Bidder is a joint venture with existing experience as that joint venture, it may submit the experience that it has obtained as that joint venture.

Example: A bidder is a joint venture consisting of members L and O. A bid solicitation requires that the bidder demonstrate experience providing maintenance and help desk services for a period of 24 months to a customer with at least 10,000 users. As a joint venture (consisting of members L and O), the bidder has previously done the work. This

bidder can use this experience to meet the requirement. If member L obtained this experience while in a joint venture with a third party N, however, that experience cannot be used because the third party N is not part of the joint venture that is bidding.

- (ii) A joint venture bidder may rely on the experience of one of its members to meet any given technical criterion of this bid solicitation.

Example: A bidder is a joint venture consisting of members X, Y and Z. If a solicitation requires: (a) that the bidder have 3 years of experience providing maintenance service, and (b) that the bidder have 2 years of experience integrating hardware with complex networks, then each of these two requirements can be met by a different member of the joint venture. However, for a single criterion, such as the requirement for 3 years of experience providing maintenance services, the bidder cannot indicate that each of members X, Y and Z has one year of experience, totaling 3 years. Such a response would be declared non-responsive.

- (iii) Joint venture members cannot pool their abilities with other joint venture members to satisfy a single technical criterion of this bid solicitation. However, a joint venture member can pool its individual experience with the experience of the joint venture itself. Wherever substantiation of a criterion is required, the Bidder is requested to indicate which joint venture member satisfies the requirement. If the Bidder has not identified which joint venture member satisfies the requirement, the Contracting Authority will provide an opportunity to the Bidder to submit this information during the evaluation period. If the Bidder does not submitted this information within the period set by the Contracting Authority, its bid will be declared non-responsive.

Example: A bidder is a joint venture consisting of members A and B. If a bid solicitation requires that the bidder demonstrate experience providing resources for a minimum number of 100 billable days, the bidder may demonstrate that experience by submitting either:

- Contracts all signed by A;
- Contracts all signed by B; or
- Contracts all signed by A and B in joint venture, or
- Contracts signed by A and contracts signed by A and B in joint venture, or
- Contracts signed by B and contracts signed by A and B in joint venture.

That show in total 100 billable days.

- (iv) Any Bidder with questions regarding the way in which a joint venture bid will be evaluated should raise such questions through the Enquiries process as early as possible during the bid solicitation period.

3.3 Volume I: Part A - Technical Bid requirements

- (a) In their technical bid, Bidders must demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders must demonstrate their capability and describe their approach in a thorough, concise and clear manner for carrying out the work.
- (b) The technical bid must address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that Bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, Bidders may refer to different sections of their

bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

(c) The technical bid consists of the following:

(i) **Bid Submission Form:** Bidders are requested to include the Bid Submission Form - Attachment 3.1 with their bids. It provides a common form in which bidders can provide information required for evaluation and contract award, such as a contact name and the Bidder's Procurement Business Number, etc. Using the form to provide this information is not mandatory, but it is recommended. If Canada determines that the information required by the Bid Submission Form is incomplete or requires correction, Canada will provide the Bidder with an opportunity to do so.

(ii) **Substantiation of Technical Compliance:** Bidders are requested to include the Substantiation of Technical Compliance Form – Attachment 3.2 with their bids. The technical bid must substantiate the experience of the Bidder and the compliancy of its proposed *SOLUTION* with the requirements of Annex A to Part 7 - *Resulting Contract Clauses* identified in the Substantiation of Technical Compliance Form, which is the requested format for providing the substantiation. The Substantiation of Technical Compliance Form is not required to address any parts of this bid solicitation not referenced in the form. The substantiation must not simply be a repetition of the requirement(s), but must explain and demonstrate how the Bidder will meet the requirements and carry out the required Work. Simply stating that the Bidder or its proposed *SOLUTION* or product complies is not sufficient. Where Canada determines that the substantiation is not complete, the Bidder will be declared non-responsive and disqualified. The substantiation may refer to additional documentation submitted with the bid - this information can be referenced in the "Reference" column of the Substantiation of Technical Compliance Form, where bidders are requested to indicate where in the bid the reference material can be found, including the title of the document, and the page and paragraph numbers; where the reference is not sufficiently precise, Canada may request that the Bidder direct Canada to the appropriate location in the documentation.

(iii) **Previous Similar Projects:** Where the bid must include a description of previous similar projects:

- A. a project must have been completed by the Bidder itself (and cannot include the experience of any proposed subcontractor or any affiliate of the Bidder);
- B. each project description must include, at minimum, the name and either the telephone number or e-mail address of a customer reference; and
- C. if more similar projects are provided than requested, Canada will decide in its discretion which projects will be evaluated.

A project will be considered "similar" to the Work to be performed under any resulting contract if the project was for the performance of work that closely matches the descriptions of the Work identified in Annex A.

(iv) **Customer Reference Contact Information:**

In conducting its evaluation of the bids, Canada may, but will have no obligation to request that a bidder provide customer references. If Canada sends such a written request, the bidder will have 2 working days to provide the necessary information to Canada. Failure to meet this deadline will result in the bid being declared non-responsive.

- (A) The form of question to be used to request confirmation from customer references is as follows:

_____ Yes, the Bidder has provided my organization with the services described above.

_____ No, the Bidder has not provided my organization with the services described above.

_____ I am unwilling or unable to provide any information about the services described above.]

- (B) For each customer reference, the Bidder must, at a minimum, provide the name and e-mail address for a contact person. If only the telephone number is provided, it will be used to call to request the e-mail address and the reference check will be done by e-mail.

Bidders are also requested to include the title of the contact person. It is the sole responsibility of the Bidder to ensure that it provides a contact who is knowledgeable about the services the Bidder has provided to its customer and who is willing to act as a customer reference. Crown references will be accepted.

- (v) **List of the Proposed Software that will form part of the *SOLUTION*:** The Bidder must include a complete list identifying both the name and the version number of each component of the *SOLUTION*'s Licensed Software and a description of the proposed software components to be developed, required to meet the requirements identified in *Annex A to Part 7 - Resulting Contract Clauses*.
- (vi) **Software Release Strategy:** The Bidder must include a proposed draft Release Strategy, which must demonstrate that the Bidder's Release Strategy meets all the mandatory requirements for handling releases described in the *Annex A to Part 7 - Resulting Contract Clauses*.
- (vii) **Solution System Architecture:** The Bidder must include an overview of the proposed Software Solution's technical architecture.

3.4 Volume I: Part B - Management Bid

In their management bid, Bidders must describe their capability and experience, the project management team and provide client contact(s).

3.5 Volume II: Financial Bid

- (a) **Pricing:** Bidders must submit their financial bid in accordance with the Basis of Payment in Annex B, using Attachment 3.3: Financial Proposal Requirements.
- (b) Unless otherwise indicated, bidders must include a single, firm, all-inclusive price quoted in Canadian dollars in each cell requiring an entry in the pricing tables.
- (c) The bid price must not include the total amount of Applicable Taxes. The total amount of Applicable Taxes should be shown separately, if applicable.
- (d) The bid price must be submitted in Canadian Currency;

-
- (e) **Variation in Resource Rates By Time Period:** For any given resource labour category, where the financial tables provided by Canada allow different firm rates to be charged for a labour category during different time periods:
- (i) the rate bid should not increase by more than 3% from one time period to the next, and
 - (ii) the rate bid for the same labour category during any subsequent time period must not be lower than the rate bid for the time period that includes the first month of the Initial Contract Period.
- (f) **All Costs to be Included:** The financial bid must include all costs for the requirement described in the bid solicitation including any services in excess of the Software Statement of Requirements identified in the Bidder's response, for the entire Contract Period, including any option to extend the Contract Period and options to add GC Users. The identification of all necessary equipment, software, peripherals, cabling and components required to meet the requirements of the bid solicitation and the associated costs of these items is the sole responsibility of the Bidder.
- (g) **Blank Prices:** Bidders are requested to insert "\$0.00" for any item for which it does not intend to charge or for items that are already included in other prices set out in the tables. If the Bidder leaves any price blank, Canada will treat the price as "\$0.00" for evaluation purposes and may request that the Bidder confirm that the price is, in fact, \$0.00. No bidder will be permitted to add or change a price as part of this confirmation. Any bidder who does not confirm that the price for a blank item is \$0.00 will be declared non-responsive.
- (h) Bidders will not be permitted to modify any aspect of their Financial Bid as a result of any revised Supply Chain Security Information Assessment Process submitted.
- (i) **Exchange Rate Fluctuation Risk Mitigation:**
- (i) 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.
 - (ii) 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.
 - (iii) 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).
 - (iv) 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.
 - (v) Alternate rates or calculations proposed by the Bidder will not be accepted for the purposes of this exchange rate fluctuation provision.

3.6 Volume III: Certifications

It is a requirement that bidders submit the certifications required under Part 5.

3.7 Volume IV: Supply Chain Security Information Assessment Process

Bidders must submit specific information regarding each component of their proposed Solution's supply chain. This information is referred to as Supply Chain Security Information Assessment Process, and as described in Section 3 of Annex D, SUPPLY CHAIN SECURITY INFORMATION ASSESSMENT PROCESS. The Supply Chain Security Information Assessment Process must be submitted in this Volume. This information will be used by Canada to assess whether, in its opinion, a Bidder's proposed supply chain creates the possibility that the Bidder's proposed Solution could compromise or be used to compromise the security integrity of Canada's equipment, firmware, software, systems or information in accordance with the Supply Chain Security Information Assessment Process as described in Annex D, SUPPLY CHAIN SECURITY INFORMATION ASSESSMENT PROCESS.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

Purpose

The purpose of this Evaluation Plan is to provide Bidders with the overall Evaluation methodology and procedures that will be followed by evaluators for the evaluation of the Bidder's Proposal for provision of the Visually Statistically Intelligent Adaptive Data Viewing Solution.

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical evaluation criteria, management, and financial.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.
- (c) In addition to any other time periods established in the bid solicitation:
 - (i) **Requests for Clarifications:** If Canada seeks clarification or verification from the Bidder about its bid, the Bidder will have 2 working days (or a longer period if specified in writing by the Contracting Authority) to provide the necessary information to Canada. Failure to meet this deadline will result in the bid being declared non-responsive.
 - (ii) **Requests for Further Information:** If Canada requires additional information in order to do any of the following pursuant to the Section entitled "Conduct of Evaluation" in 2003, Standard Instructions - Goods or Services - Competitive Requirements:
 - (A) verify any or all information provided by the Bidder in its bid; or
 - (B) contact any or all references supplied by the Bidder to verify and validate any information submitted by the Bidder,the Bidder must provide the information requested by Canada within 2 working days of a request by the Contracting Authority.
 - (iii) **Extension of Time:** If additional time is required by the Bidder, the Contracting Authority may grant an extension in his or her sole discretion.
- (d) Applicable Reference Evaluation RFP Documents

The following documents, including their appendices, form the basis of technical, financial and management evaluation:

- i) Annex A – Software Requirement Specifications
- ii) Attachment 3.1 - Bid Submission Form
- iii) Attachment 3.2 - Substantiation of Technical Compliance Form
- iv) Attachment 3.3 - Financial Proposal Requirement
- v) Attachment 4.1 - Technical Evaluation Criteria

4.2 Proposal Receipt and Review by PWGSC

The Bid Receiving Unit of PWGSC will confirm that the Bidder proposal is received by the date and time as indicated on page 1 of this bid solicitation.

The Contracting Authority will verify the Bidder proposal, as follows:

- (a) Review the proposal to determine if it is complete;
- (b) Confirm whether the Bidder is subject to a Vendor Performance Corrective Measure;
- (c) Confirm that the Bidder proposal conforms with 2003 – Standard Instructions - Goods or Services - Competitive Requirements; and
- (d) Confirm that the certificate of Compliance under Certifications Part 5 is completed and signed.

4.3 Technical Evaluation

(a) **Mandatory Technical Criteria:**

- (i) Each bid will be reviewed for compliance with the mandatory requirements of the bid solicitation. Any element of the bid solicitation that is identified specifically with the words "must" or "mandatory" is a mandatory requirement. Bids that do not comply with each and every mandatory requirement will be declared non-responsive and be disqualified.
- (ii) The mandatory technical criteria are described in Attachment 4.1 Technical Evaluation Criteria.

(b) **Point-Rated Technical Criteria:**

Each bid will be rated by assigning a score to the rated requirements, which are identified in the bid solicitation by the word "rated" or by reference to a score. It is the responsibility of the Bidder to provide information and data in sufficient detail to demonstrate compliance with any of the technical rated requirements. Therefore, the bidder must demonstrate compliance in the bid submission requirements section in order to obtain points in any of the Technical Rated Requirements Evaluation Criteria. Bidders who fail to submit complete bids with all the information requested by this bid solicitation will be rated accordingly. The point-rated technical criteria are described in Attachment 4.1 Technical Evaluation Criteria.

4.4 Requests for Clarifications

If Canada seeks clarification or verification from the Bidder about its bid, the Bidder will have 2 working days (or a longer period if specified in writing by the Contracting Authority) to provide the necessary information to Canada. Failure to meet this deadline will result in the bid being declared non-responsive.

4.5 Management Evaluation

- (a) Point Rated Management Bid - Attachment 4.1 Technical Evaluation Criteria.

4.6 Evaluation Weighting

Evaluation Element	Proposal Element	Weight
Technical Score	Technical Bid – Point-Rated Criteria	210 points
Technical Score	Management Bid – Point Rated Criteria	90 points
TOTAL		300 points

4.7 Supply Chain Security Information Assessment Process

Canada will assess whether, in its opinion, the top-ranked bidders' supply chain creates the possibility that bidders' proposed solution could compromise or be used to compromise the security integrity of Canada's equipment, firmware, software, systems or information in accordance with Section 3 of Annex D – SUPPLY CHAIN SECURITY INFORMATION ASSESSMENT PROCESS.

4.8 Financial Evaluation

- (a) The financial evaluation will be conducted by calculating the Total Bid Price using the Pricing Tables completed by the bidders at Attachment 3.3: Financial Proposal Requirements.
- (b) All pricing will be rounded to the second decimal place.
- (c) The prices of the responsive bids will be evaluated in Canadian dollars, the Goods and Services Tax or the Harmonized Sales Tax excluded.

4.9 Formulae in Pricing Tables

If the pricing tables provided to bidders include any formulae, Canada may re-input the prices provided by bidders into a fresh table, if Canada believes that the formulae may no longer be functioning properly in the version submitted by a Bidder.

4.10 Substantiation of Professional Services Rates for AWRs Task Authorization

In Canada's experience, bidders will from time to time propose rates at the time of bidding for one or more categories of resources that they later refuse to honour, on the basis that these rates do not allow them to recover their own costs and/or make a profit. When evaluating the rates bid for professional services, Canada may, but will have no obligation to, require price support in accordance with this Article. If Canada requests price support, it will be requested from all otherwise responsive bidders who have proposed a rate that is at least 20% lower than the median rate bid by all responsive bidders for the relevant resource category or categories. If Canada requests price support, the Bidder must provide the following information:

- (i) an invoice (referencing a contract serial number or other unique contract identifier) that shows that the Bidder has provided and invoiced a customer (with whom the Bidder deals at arm's length) for services performed for that customer similar to the services that would be provided in the National Capital Region or other relevant region for the resource category being assessed, if the prices vary greatly from region to region in the relevant resource category, where those services were provided for at least three months within the twelve months before the bid solicitation closing date, and the fees charged were equal to or less than the rate offered to Canada;
- (ii) in relation to the invoice in (i), evidence from the Bidder's customer that the services identified in the invoice include at least 50% of the tasks listed in the Statement of Work for the category of resource being assessed for an unreasonably low rate. This evidence must consist of either a copy of the contract (which must describe the services to be provided and demonstrate that at least 50% of the tasks to be performed are the same as those to be performed under the Statement of Work in this bid solicitation) or the customer's signed certification that the services subject to the charges in the invoice included at least 50% of the same tasks to be performed under the Statement of Work in this bid solicitation;
- (iii) in respect of each contract for which an invoice is submitted as substantiation, a résumé for the resource that provided the services under that contract that demonstrates that, in relation to the resource category for which the rates are being substantiated, the resource would meet the mandatory requirements and achieve any required pass mark for any rated criteria; and
- (iv) the name, telephone number and, if available, e-mail address of a contact person at the customer who received each invoice submitted under (i), so that Canada may verify any information provided by the Bidder.

Once Canada requests substantiation of the rates bid for any resource category, it is the sole responsibility of the Bidder to submit information (as described above and as otherwise may be requested by Canada, including information that would allow Canada to verify information with the resource proposed) that will allow Canada to determine whether it can rely, with confidence, on the Bidder's ability to provide the required services at the rates bid. If Canada determines that the information provided by the Bidder does not adequately substantiate the unreasonably low rates, the bid will be declared non-responsive.

4.11 Basis of Selection

- (a) To be declared responsive, a bid must:
 - (i) comply with all the requirements of the bid solicitation; and
 - (ii) meet all mandatory Experience and Capability criteria;
 - (iii) obtain the required minimum of 30 points for the Management Bid which is subject to a point rating. This rating is performed on a scale of 90 points;
 - (iv) Signed Certification of Compliance - Attachment 5.3.
- (b) Bids not meeting (i) or (ii) or (iii) or (iv) will be declared non-responsive.
- (c) The total available technical points (Point rated requirements and management bid rating) is 300.
- (d) The ratio will be 60% for the total evaluated rated requirement points (Point rated requirements and management bid rating) and 40% for the bid evaluated price.
- (e) To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained divided by the maximum number of points available multiplied by the ratio of 60 %.
- (f) To establish the pricing score, each responsive bid will be prorated against the lowest evaluated bid price and the ratio of 40 %, as follows: lowest evaluated bid price divided by the bid evaluated score multiplied by the ratio of 40 %.
- (g) All point scores for technical and financial will be rounded to the fourth decimal place.
- (h) For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.
- (i) Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted.
- (j) The responsive bid with the highest combined rating will be recommended for award of a contract.

The table below illustrates an example where all three bids are responsive and the selection of the winning bidder is determined by a 60/40 ratio of technical merit and price, respectively. The total available technical points equals 300 and the lowest evaluated price is \$45,000.00.

Basis of Selection - Highest Combined Rating Technical Merit (60%) and Price (40%)			
	Bidder 1	Bidder 2	Bidder 3
Overall Technical Score	230	200	225
Bid Evaluated Price	\$55,000.00	\$50,000.00	\$45,000.00
Technical Score	$230 / 300 \times 60 = 46.0000$	$200 / 300 \times 60 = 40.0000$	$225 / 300 \times 60 = 45.0000$
Pricing Score	$\$55,000 / \$45,000 \times 40 = 48.9000$	$\$50,000 / \$45,000 \times 40 = 44.4000$	$\$45,000 / \$45,000 \times 40 = 40.0000$
Combined Rating (Technical Merit Score and Pricing Score)	$46 + 48.9 = 94.9000$	$40 + 44.4 = 84.4000$	$45 + 40 = 85.0000$
Highest Combined Overall Score	1 st	3 rd	2 nd

- (k) Bidders should note that all contract awards are subject to Canada's internal approvals process, which includes a requirement to approve funding in the amount of any proposed contract. Despite the fact that the Bidder may have been recommended for contract award, a contract will only be awarded if internal approval is granted according to Canada's internal policies. If approval is not granted, no contract will be awarded.
- (l) If more than one bidder is ranked first because of identical combined rating score, then the bidder with the best bid evaluated price score will become the highest combined rating bidder and will be recommended for award of a contract.

4.12 Pre Contract Finalization:

Before issuance of the Contract at Part 7 – Resulting Contract Clauses, this contract will be amended to reflect the point rated technical requirements as per the Bidder's proposal. The adjustment of Article numbering and applicable T&Cs based on the Bidder's proposal details.

PART 5 - CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information 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 made knowingly or unknowingly, 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 and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with Bid

Bidders must submit the following duly completed certifications as part of their bid.

(a) Integrity Provisions - Declaration of Convicted Offences

In accordance with the [Ineligibility and Suspension Policy \(http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html\)](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html), the Bidder must provide with its bid the required documentation, as applicable, to be given further consideration in the procurement process. The required documentation, as applicable can be found at the following link: <http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaires-forms-eng.html>

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

(a) Integrity Provisions – Required Documentation

In accordance with the [Ineligibility and Suspension Policy \(http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html\)](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

(b) 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 available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's website \(http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contract_or_program.page?&_ga=1.229006812.1158694905.1413548969#afed\)](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contract_or_program.page?&_ga=1.229006812.1158694905.1413548969#afed).

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.

The Bidder must provide the Contracting Authority with a completed Attachment 5.1 - Federal Contractors Program for Employment Equity - Certification, 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.

(c) Software Publisher Certification and Software Publisher Authorization

- (i) If the Bidder is the Software Publisher for any of the proprietary software products it bids, Canada requires that the Bidder confirm in writing that it is the Software Publisher. Bidders are requested to use the Software Publisher Certification Form included with the bid solicitation in Attachment 5.2 - Software Publisher Forms. Although all the contents of the Software Publisher Certification Form are required, using the form itself to provide this information is not mandatory. For bidders who use an alternate form, it is in Canada's sole discretion to determine whether all the required information has been provided. Alterations to the statements in the form may result in the bid being declared non-responsive.
- (ii) Any Bidder that is not the Software Publisher of all the proprietary software products proposed in its bid is required to submit proof of the Software Publisher's authorization, which must be signed by the Software Publisher (not the Bidder). No Contract will be awarded to a Bidder who is not the Software Publisher of all of the proprietary software it proposes to supply to Canada, unless proof of this authorization has been provided to Canada. If the proprietary software proposed by the Bidder originates with multiple Software Publishers, authorization is required from each Software Publisher. Bidders are requested to use the Software Publisher Authorization Form included with the bid solicitation. Although all the contents of the Software Publisher Authorization Form are required, using the form itself to provide this information is not mandatory. For Bidders/Software Publishers who use an alternate form, it is in Canada's sole discretion to determine whether all the required information has been provided. Alterations to the statements in the form may result in the bid being declared non-responsive.
- (iii) In this bid solicitation, "Software Publisher" means the owner of the copyright in any software products proposed in the bid, who has the right to license (and authorize others to license/sub-license) its software products.

PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS

6.1 Financial Capability

- (a) SACC Manual clause A9033T (2012-07-16) Financial Capability applies, except that subsection 3 is deleted and replaced with the following: "If the Bidder is a subsidiary of another company, then any financial information required by the Contracting Authority in 1(a) to (f) must also be provided by each level of parent company, up to and including the ultimate parent company. The financial information of a parent company does not satisfy the requirement for the provision of the financial information of the Bidder; however, if the Bidder is a subsidiary of a company and, in the normal course of business, the required financial information is not generated separately for the subsidiary, the financial information of the parent company must be provided. If Canada determines that the Bidder is not financially capable but the parent company is, or if Canada is unable to perform a separate assessment of the Bidder's financial capability because its financial information has been combined with its parent's, Canada may, in its sole discretion, award the contract to the Bidder on the condition that one or more parent companies grant a performance guarantee to Canada."

In the case of a joint venture bidder, each member of the joint venture must meet the financial capability requirements.

PART 7 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

7.1 Requirement

- (a) **To be filled in at Contract Award** (the "**Contractor**") agrees to supply to the Client the goods and services described in the Contract, pursuant to the requirements described in Annex A - Software Requirement Specification (SRS), in accordance with, and at the prices set out in, the Contract. This includes:
- (i) *The SOLUTION* comprising of any proposed Licensed Software, Custom Software required for *the SOLUTION* to meet the SRS, any Licences to use Custom Software forming part of *the SOLUTION* and any Work required to deliver *the SOLUTION*.
 - (ii) providing a detailed design plan including the development of the *SOLUTION*, IT model(s) design, a knowledge transfer program, user guides and web tutorials;
 - (iii) Designing, developing, testing, packaging and delivering the *SOLUTION*, which may be comprised of any combination of Commercial Off the Shelf software, Pre-existing Software and Custom Software (together, the "Licensed Programs");
 - (iv) granting the licenses to use Licensed Software as described in the Contract;
 - (v) providing Software Documentation as described in the Contract;
 - (vi) providing the Technical Documentation Deliverables as described in the Contract;
 - (vii) providing Software Maintenance and Support for the Licenced Software during the Software Support initial Contract period and for any optional Software Maintenance and Support periods;
 - (viii) providing for professional services, as and when requested by Canada for Additional Work Requirements (AWRs); and
 - (ix) enabling the client to design, develop and modify Presentation Layers;
- (b) The scope of Work for this Contract includes both the development and submission of all identified deliverables. All deliverables, documents, goods rendered under this Contract are subject to acceptance by Canada. Should any deliverables, document, good not be in accordance with the requirements of the Contract, Canada shall have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.
- (c) The Work involves the provision of assistance and guidance inherent to the progression and refinement of the activities to meet the SRS requirements. All such assistance, guidance and consultation between the Parties, are included in the firm price of the contract in which it was accepted and do not constitute Additional Work.
- (d) **Client:** Under the Contract, the "**Client**" is Statistic Canada.
- (e) **Reorganization of Client:** The Contractor's obligation to perform the Work will not be affected by (and no additional fees will be payable as a result of) the renaming, reorganization, reconfiguration, or restructuring of any Client. The reorganization, reconfiguration and restructuring of the Client includes the privatization of the Client, its merger with another entity, or its dissolution, where that dissolution is followed by the creation of another entity or entities with mandates similar to the original Client. In connection with any form of reorganization,

Canada may designate another department or government body as the Contracting Authority or Technical Authority, as required to reflect the new roles and responsibilities associated with the reorganization.

- (f) **Defined Terms:** Words and expressions defined in the General Conditions or Supplemental General Conditions and used in the Contract have the meanings given to them in the General Conditions or Supplemental General Conditions. Also, the following words and expressions have the following meanings:
- (i) "Product" means any hardware that operates at the data link layer of the Open Systems Interconnection model (OSI Model) Layer 2 and above; any software; and any Workplace Technology Device;
 - (ii) "Workplace Technology Device" means any desktop, mobile workstation (such as a laptop or tablet), smart phone, or phone, as well as any peripheral item or accessory such as a monitor, keyboard, computer mouse, audio device or external or internal storage device such as a USB flash drive, memory card, external hard drive or writable CDs and DVDs or other media.
 - (iii) "Canada's Data" means any data originating from the Work, any data received in contribution to the Work or that is generated as a result of the delivery of security, configuration, operations, administration and management services, and any data that is transported or stored by the contractor or any subcontractor as a result of performing the Work.
 - (iv) In addition specifically defined terms and acronyms used in this Contract are defined in the Dictionary of Terms and Acronyms found in Section 8 to Annex A to the Contract.
 - (v) Words and phrases defined Annex A are shown in UPPERCASE and *Italics* when used in this Contract.
 - (vi) Words that are not defined terms identified or that are not UPPERCASE and *Italics* have standard definitions as defined in the Oxford Concise English Dictionary (version in effect on date of release of Contract).

7.2 Optional Goods and/or Services

- (a) The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Article 7.4, 7.6 and 7.7 of the Contract under the same terms and conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority by notice in writing and will be evidenced, for administrative purposes only, through a contract amendment.
- (b) The Contracting Authority may exercise the option at any time before the expiry of the Contract by sending a written notice to the Contractor.

7.3 Change in the Work

- (a) Canada may, by notice to the Contractor, request changes (additions, deletions, substitutions) in the Work, if the change is deemed by Canada to be within the general scope of this Contract. Upon receipt of such notice, the Contractor must prepare and submit the information that will be required and requested, by Canada, in order for Canada to authorize any change in the Work.
- (b) In the event that a change in the Work is requested and authorized by the Contracting Authority, affecting the Contract Price, the Contractor will be paid in accordance with the

applicable provisions set out in *Annex B - Basis of Payment* of this Contract as may be amended.

- (c) The Contractor must not proceed with any change in the Work without the written authorization of the Contracting Authority. Any work performed without the Contracting Authority's written authorization will be considered outside the scope of this Contract and no retroactive approvals and payment will be made for such work.
- (d) If authorized, the resulting change in the Work is to be incorporated into the Work by the Contractor. The authorized changes in the Work do not relieve the Contractor of its responsibility to meet the requirements of the Contract.
- (e) A contract amendment will be issued periodically to incorporate any changes in the Work.

7.4 Additional Work Requirements (AWRs) for Professional Services - Task Authorization

- (a) **As-and-when-requested Task Authorizations:** Canada may request the Contractor to carry out Additional Work Requirements at any time during the period of this Contract. Additional Work Requirements will be on an "as-and-when-requested basis" using a Task Authorization (TA). The Work described in the TA must be in accordance with the scope of the Contract. AWRs considered to be in accordance with the scope of the Contract could include but not limited to Work associated to updating the accepted *SOLUTION* as a result of changes to the Government of Canada Web Accessibility Standard, adding new functionalities to *the accepted SOLUTION*, adapting the accepted *SOLUTION* to IT environment, build additional presentation layers to present other program's data.
- (b) With respect to Work mentioned under paragraph (a) of this Article,
 - (i) an obligation will come into force only when the Contractor receives a Task Authorization (TA), inclusive of any revisions, authorized and issued in accordance with this clause, and only to the extent designated in the authorized Task Authorization;
 - (ii) the Task Authorization Authority and limit will be determined in accordance with paragraph (e) of this Article;
 - (iii) the Contractor must not commence work until a TA, or any TA revisions thereof, has been authorized and issued by Canada and received by the Contractor. The Contractor acknowledges that any work performed before a TA or revision of a TA, has been authorized and issued by Canada and received by the Contractor will be done at the Contractor's own risk and expense; and
 - (iv) the TA, or any TA revisions thereof, will be authorized under the Contract through the use of Appendix A – Task Authorization Form to Annex C.
- (c) **Task Authorization Process - Form and Content of draft Task Authorization:**

For each task or revision of a previously authorized task, the following process must be followed:

- (i) The Technical Authority will provide the Contractor with a description of the task using the "Task Authorization Form" specified in Annex C.
- (ii) The draft Task Authorization will contain the details of the activities to be performed, a description of the deliverables, the associated acceptance criteria, and a schedule indicating completion dates for the major activities or submission dates for the deliverables, as appropriate, and will allocate an AWR TA Number for each request.

The draft TA will also include the applicable basis and method of payment as specified in the Contract.

(iii) A draft Task Authorization must also contain the following information, if applicable:

- (A) the task number;
- (B) The date by which the Contractor's response must be received (which will appear in the draft Task Authorization, but not the issued Task Authorization);
- (C) the details of any financial coding to be used;
- (D) the labour categories of resources and the number required;
- (E) a description of the work for the task outlining the activities to be performed and identifying any deliverables (such as reports);
- (F) the start and completion dates;
- (G) milestone dates for deliverables and payments (if applicable);
- (H) the number of person-days of effort required;
- (I) whether the work requires on-site activities and the location;
- (J) the language profile of the resources required;
- (K) the level of security clearance required of resources;
- (L) the price payable to the Contractor for performing the task, with an indication of whether it is a firm price or a maximum TA price (and, for maximum price task authorizations, the TA must indicate how the final amount payable will be determined; where the TA does not indicate how the final amount payable will be determined, the amount payable is the amount, up to the maximum, that the Contractor demonstrates was actually worked on the project, by submitting time sheets filled in at the time of the work by the individual resources to support the charges); and
- (M) any other constraints that might affect the completion of the task.

(iv) **Contractor's Response to Draft Task Authorization:** The Contractor must provide to the Technical Authority, within 5 working days of receiving the draft Task Authorization (or within any longer time period specified in the draft TA), the following information:

- (A) Confirm that the request is within the scope of the Contract;
- (B) Identify any constraints that will prevent the Contractor from responding and/or performing the work within the required schedule;
- (C) request additional information if needed;
- (D) a description of the work plan proposed;
- (E) the proposed Level of Effort (LOE) with labour category as identified with the Firm Labour Rates at Annex B – Basis of Payment of the Contract;
- (F) a list of personnel (including their associated Labour Category and Labour Rate) assigned to perform the Task;

- (G) copies of subcontractor and/or material suppliers' quotations (including the Contractor's requests for such quotations) (if applicable);
- (H) any impact of the Additional Work Requirement associated with any of the requirements of the Contract;
- (I) a schedule to perform the Additional Work task and the impact on the Contract delivery schedule;
- (J) a list of affected Contract deliverables (already completed and/or in progress and/or planned) or any new deliverable as applicable;
- (K) a list of affected Contract requirements; and
- (L) the proposed total price for performing the task and a breakdown of that cost, established in accordance with the Basis of Payment specified in the Contract. The Contractor's quotation must be based on the rates set out in the Contract. The Contractor will not be paid for preparing or providing its response or for providing other information required to prepare and validly issue the TA.

(d) **Task Authorization Limit and Authorities for Validly Issuing Task Authorizations:**

To be validly issued, a TA must include the following signatures:

- (i) for any TA with a value, inclusive of revisions, of less than or equal to \$25,000.00 (including Applicable Taxes), the TA must be signed by the:
 - (A) the Client Administrative Contact
- (ii) for any TA with a value greater than this amount, a TA must include the following signatures:
 - (A) Client Administrative Contact; and
 - (B) the Contracting Authority.

Any TA that does not bear the appropriate signatures is not validly issued by Canada. Any work performed by the Contractor without receiving a validly issued TA is done at the Contractor's own risk. If the Contractor receives a TA that is not appropriately signed, the Contractor must notify the Contracting Authority. By providing written notice to the Contractor, the Contracting Authority may suspend the Client's ability to issue TAs at any time, or reduce the dollar value threshold described in sub-article (A) above; any suspension or reduction notice is effective upon receipt.

(e) **Periodic Usage Reports:**

- (i) The Contractor must compile and maintain records on its provision of services to the federal government under the Task Authorizations validly issued under the Contract. The Contractor must provide this data to Canada in accordance with the reporting requirements detailed below. If some data is not available, the reason must be indicated. If services are not provided during a given period, the Contractor must still provide a "NIL" report. The data must be submitted on a quarterly basis to the Contracting Authority. From time to time, the Contracting Authority may also require an interim report during a reporting period.
- (ii) The quarterly periods are defined as follows:

- (A) 1st quarter: April 1 to June 30;
- (B) 2nd quarter: July 1 to September 30;
- (C) 3rd quarter: October 1 to December 31; and
- (D) 4th quarter: January 1 to March 31.

The data must be submitted to the Contracting Authority, and the Client Administrative Contact, no later than 15 calendar days after the end of the reporting period.

- (iii) Each report must contain the following information for each validly issued TA (as revised):
 - (A) the Task Authorization number and the Task Authorization Revision number(s), if applicable;
 - (B) a title or a brief description of each authorized task;
 - (C) the name, Labour Category and level of effort (LoE) of each resource involved in performing the TA, as applicable;
 - (D) the total estimated cost specified in the validly issued TA of each task, exclusive of Applicable Taxes;
 - (E) the total amount, exclusive of Applicable Taxes, expended to date against each authorized task;
 - (F) the start and completion date for each authorized task; and
 - (G) the active status of each authorized task as applicable (e.g., indicate whether work is in progress or if Canada has cancelled or suspended the TA, etc.).
- (iv) Each report must also contain the following cumulative information for all the validly issued TAs (as revised):
 - (A) the amount, exclusive of Applicable Taxes, specified in the Contract (as last revised, as applicable) as Canada's total liability to the Contractor for all authorized TAs; and
 - (B) the total amount, exclusive of Applicable Taxes, expended to date against all validly issued tasks.
- (v) Each report should be in PDF format.
- (f) **Consolidation of AWRs TAs for Administrative Purposes:** The Contract may be amended by the Contracting Authority from time to time to reflect all validly issued and authorized AWRs Task Authorizations to date, to document the Work performed under those TAs for administrative purposes. The accepted and authorized AWRs Task Authorizations will be recorded and listed in Appendix B – Records of Authorized AWRs of Annex C to this Contract.

7.5 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) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

(a) **General Conditions:**

The following General Conditions apply to and form part of the Contract:

- (i) 2030 (2016-04-04), General Conditions - Higher Complexity - Goods, apply to and form part of the Contract.

(b) **Supplemental General Conditions:**

The following Supplemental General Conditions apply to and form part of the Contract:

- (i) 4002 (2010-08-16), Supplemental General Conditions - Software Development or Modification Services;
 - (ii) 4003 (2010-08-16), Supplemental General Conditions - Licensed Software;
 - (iii) 4004 (2013-04-25), Supplemental General Conditions - Maintenance and Support Services for Licensed Software;
 - (iv) 4006 (2010-08-16), Supplemental General Conditions - Contractor to Own Intellectual Property Rights in Foreground Information;
- (c) The 4002 (2010-08-16) Software Development or Modification Services is amended as follows:
- (i) Section 4002 08(2) is amended as follows:

Delete:

"2. The Contractor must not develop the Custom Software by modifying Pre-existing Software or incorporate any Pre-existing Software into the Custom Software without first obtaining the written consent of Canada. However, the consent of Canada is not required if the use of Pre-existing Software is specifically authorized in the Contract."

and replace with:

"2. The Contractor may develop the Custom Software by modifying Pre-existing Software or incorporate any Pre-existing Software into the Custom Software, pursuant to the terms of the Contract."

- (ii) Section 4002 08(3) is deleted in its entirety and replaced with:
 - 3. If Pre-existing Software forms part of the Presentation Layer Custom Software, the Contractor must, within thirty (30) days following acceptance of the Custom Software by Canada, at its option and expense, deliver the source code for that software to Canada.
- (d) Supplemental General Condition 4003 (2010-08-16) Licensed Software is amended as follows:
- (i) Section 01, Interpretation, the definition of "Licensed Programs" is deleted and replaced by:
 - "Licensed Programs"
means all of the computer programs, whether Commercial-Off-the-Shelf software, Pre-existing Software or Custom Software, in object-code form, comprising the *SOLUTION*, which must be provided by the Contractor to Canada under the Contract, and include all patches, fixes and other code that may be delivered to

Canada under the Contract in relation to the *SOLUTION*, including any code provided as part of the warranty, maintenance, or support;

- (ii) Delete in its entirety Section 16.

- (e) The 4004 (2013-04-25) Maintenance and Support Services for Licensed Software is amended as follows:

- (i) Section 01 - Interpretation, is amended adding the following Interpretations:

"Bug Fixes" means a temporary work-around, patch, or bypass to update the program code to correct errors or defects.

"Enhancement" also often referred to as an "interim release" means an interim release version of the Licensed Software, which is often documented by adding a further decimal and digit to the version or release number (e.g., V.X.X.2 would be the next enhancement after V.X.X.1).

"Error" means any software instructions or statement contained in (or absent from) the Licensed Program that, by its presence or absence, prevents the Licensed Software from operating in accordance with the Specifications.

"Extensions" means an update to the Licensed Software that extends the features, functionality or performance of the Licensed Software program code, regardless of whether the Contractor refers to it as an "extension".

"New Release" means a system release, a version release, and interim release of the Licensed Software, regardless of whether the Contractor refers to it as a "new release".

"Renames" means an upgrade to the Licensed Software where the product name is changed, but the new software product has similar features and functionality as the Licensed Software, regardless of whether the Contractor refers to it as a "rename".

"Service Releases" means a release of the Software which is designed to operate on designated combinations of computer hardware and operating systems. A new System Release typically will be indicated by the addition of one (1) to the first digit of the release number (e.g. v.2.X.X would be the next System Release after v.1.X.X).

"Software Patches" means an engineering fix to a problem that may be incorporated into a new release to update the Licensed Software in order to improve or correct errors or defects in the program code.

"Technical Support Organization" ('TSO') means those Contractor product specialists who make available technical support to Contractor's Clients who have contracted for and are current under Contractor's Maintenance Services.

"Upgrades (major)" means an update to the Licensed Software to add, extend, enhance and/or improve the existing features, functionality and/or performance of the program code, which is documented by a version or build number change to the left of the first decimal (e.g., Product X Version 1.3 changes to Product 2.0 or Product X Version 1.1.5 changes to Product X Version 2.0.0), regardless of whether the Contractor refers to it as a "major upgrade".

"Upgrades (minor)" means an update to the Licensed Software to add, extend, enhance and/or improve the existing features, functionality and/or performance of the program code, which is documented by a version or build number change to the right of the first decimal (e.g., Product X Version 1.0 changes to Product X Version 1.1 or Product X Version 1.0.0 changes to Product X Version 1.0.1), regardless of whether the Contractor refers to it as a "minor upgrade".

"Version Release" means a release often involving a limited number of new or enhanced features or functionality or features and error corrections, which is often documented by adding a second digit after the release number (e.g., V.X.2.X would be the next version release after V.X.1.X)."

7.6 Licensed **SOLUTION**

(a) With respect to the provisions of Supplemental General Conditions 4003:

Licensed SOLUTION	The Licensed Software, which is defined in 4003, and included in <i>the SOLUTION</i> , includes all the products offered by the Contractor in its bid, and any other software code required for those products to function in accordance with the Software Documentation and the Specifications, including without limitation all of the following products: _____ <i>[this information will be completed at contract award using information in the Contractor's bid]</i>
Type of License being Granted	"Perpetual License"
Number of GC USERS	50 concurrent GC USERS
Option to Purchase Licenses for Additional concurrent GC USERS	The Contractor grants to Canada the irrevocable option to purchase licenses for up to 50 additional concurrent GC USERS at the price set out in Annex B on the same terms and conditions as the initial SOLUTION's User licences granted for concurrent GC USERS under the Contract <i>including for additional Clients within the scope of the Contract</i> . This option may be exercised at any time during the Contract Period, as many times as Canada chooses. This option may only be exercised by the Contracting Authority by notice in writing and will be evidenced, for administrative purposes only, by a contract amendment.
Delivery Location	To be delivered to Technical Authority.
Media on which Licensed Software must be Delivered	CD-ROM or DVD-ROM
The SOLUTION's Software Warranty Period	12 months following Final Solution Acceptance

Source Code Escrow Required	No
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7.7 Licensed Presentation Layer Software

With respect to the provisions of Supplemental General Conditions 4006:

Presentation Layer Software	The Presentation Layer Software, which is defined as the Commercial-Off-the-Shelf, Pre-Existing and Custom Software developed and included by the Contractor to design and develop the Presentation Layer and includes all APIs required to use the <i>SOLUTION</i> , and any other software code required for those products to function in accordance with the Software Documentation and the Specifications, including without limitation all of the following products: _____ <i>[this information will be completed at contract award using information in the Contractor's bid]</i>
Type of License being Granted	"Perpetual License"
Number of Users Licensed	50 concurrent <i>GC USERS</i>
Option to Purchase Licenses for Additional Users	The Contractor grants to Canada the irrevocable option to purchase licenses for up to 50 additional concurrent <i>GC USERS</i> at the price set out in Annex B on the same terms and conditions as the initial <i>SOLUTION</i> 's User licences granted for concurrent <i>GC USERS</i> under the Contract including for additional Clients within the scope of the Contract. This option may be exercised at any time during the Contract Period, as many times as Canada chooses. This option may only be exercised by the Contracting Authority by notice in writing and will be evidenced, for administrative purposes only, by a contract amendment.
Delivery Location	To be delivered to Technical Authority.
Media on which Licensed Software must be Delivered	CD-ROM or DVD-ROM
Software Warranty Period	12 months following Final Solution Acceptance
Source Code Delivery Required	Yes

7.8 On-going Maintenance of Licensed Software Code:

- (a) The Contractor must continue to maintain the version of the Licensed Programs (i.e., the version or "build" originally licensed under the Contract) as a commercial product (i.e., the Contractor or the software publisher must be continuing to develop new code in respect of the

Licensed Software to maintain its functionality, enhance it, and deal with Software Errors) for at least 2 years from the date the SOLUTION is confirmed Accepted. After that time, if the Contractor or the software publisher decides to discontinue or no longer maintain the then-current version or "build" of the Licensed Programs, and, instead, decides to provide upgrades to the Licensed Programs as part of Licensed Software Support, the Contractor must provide written notice to Canada at least 12 months in advance of the discontinuation.

7.9 Grant of Licenses:

- (a) In addition to the obligations set out in Section 4003 02 – License Grant, the Contractor grants to Canada a license to use the Licensed Software in accordance with the Contract. This license is non-exclusive, perpetual, irrevocable, world-wide, fully paid and without royalties. The license cannot be restricted, modified or revised in any way by the Contractor.

This License includes the right for Canada to install, copy, deploy and use the Licensed Software, which includes the rights:

- (i) to grant access through a browser using Internet, intranet and extranet environments or any other connections to anyone (Canadians and non-Canadians and employees and contractors of Canada) who uses the services and programs provided by Canada (regardless of their location) to access, view, enter, search, exchange and read information held and created by the Client using the Licensed Software;
- (ii) to make this use by way of a network, the Internet, an intranet, an extranet, a virtual private network (VPN), an inter-network, or such other means as may become possible from time to time so that users have "universal access rights" (i.e., a right to access the Licensed Software by any means from any location as may become possible from time to time), whether their means of access is secure, wireless, mobile or by any other means available from time to time;
- (iii) to receive the Licensed Software from the Contractor on Canada's choice(s) of the media on which the Contractor makes the Licensed Software available to customers (including CD-ROM, Internet download, and such other media that the Contractor uses to distribute the Licensed Software at any given time); and
- (iv) to continue to use the Licensed Software regardless of any changes made at any given time, including but not limited to changes in the operating system, other applications, hardware, peripherals or devices with which the Licensed Software operates; however, the Contractor is not required to deliver a new or different version of the Licensed Software to enable the Client Users to continue to use the Licensed Software in a different environment than the one(s) described in the Contract (unless expressly required to do so as part of the warranty or software maintenance for the Licensed Software described in the Contract),

all without affecting the pricing in the Contract and without requiring the Client to obtain additional licences or accept amended licence terms for the Licensed Software.

7.10 The SOLUTION's Software Maintenance and Support

- (a) With respect to the provisions of Supplemental General Conditions 4004:

<i>The SOLUTION'S</i> Software Support Period	<i>The SOLUTION's</i> Software Support Period is the Contract Period.
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<i>The SOLUTION's</i> Software Support Period when Additional Licenses added during Contract Period	For any additional licenses purchased in accordance with the Contract, <i>the SOLUTION's</i> Software Support Period currently underway will apply to the additional <i>SOLUTION</i> licenses purchased, so that the <i>SOLUTION's</i> Software Support Period ends on the same date for all licences, which are included in <i>the SOLUTION</i> , supported under the Contract.
Option to Extend <i>the SOLUTION's</i> Software Support Period	The Contractor grants to Canada the irrevocable option(s) to extend the <i>SOLUTION's</i> Software Support Period by 5 additional 12-month periods, exercisable at any time during the Contract Period. The Contractor agrees that, during <i>the</i> entire Software Support Period for <i>the SOLUTION</i> , the prices will be those set out in Annex B. The option(s) may only be exercised by the Contracting Authority by notice in writing and will be evidenced, for administrative purposes only, by a contract amendment.
Contractor must provide On-site Support Services	Yes – this will be AWR type of Work as and when requested.
Contractor must install <i>the SOLUTION's</i> Software Error corrections and Maintenance Releases and upgrades	No
Contractor must keep track of <i>the SOLUTION's</i> software releases for the purpose of configuration control	Yes
Contact Information for Accessing the Contractor's Support Services	<p>In accordance with Section 5 of 4004, the Contractor will make its Support Services available through the following: Toll-free Telephone Access: _____ Toll-free Fax Access: _____ Email _____ Access: _____ The Contractor must respond to all telephone, fax or email communications (with a live service agent) within 60 minutes of the initial time of the Client or User's initial communication.</p> <p>[Note to Bidders: <i>This information will be completed at the time of contract award with information supplied by the Contractor. Bidders are requested to provide this information in their bids.</i>]</p> <p>[Note to Bidders: <i>to be completed with information from the Contractor at the time of award. Bidders are requested to provide this information in their bids.</i>]</p>

Website	<p>In accordance with Section 5 of 4004, the Contractor must make Support Services available over the Internet. To do so, the Contractor must include, as a minimum, frequently asked questions and on-line software diagnostic routines and support tools. Despite the Hours for Providing Support Services, the Contractor's website must be available to Canada's users 24 hours a day, 365 days a year, and must be available 99% of the time. The Contractor's website address for web support is _____.</p> <p>[Note to Bidders: to be completed with information from the Contractor at the time of award. Bidders are requested to provide this information in their bids].</p>
Language of Support Services	<p><i>The SOLUTION's</i> Support Services must be provided in French and/or in English.</p>

- (b) In addition to the obligations set out in Section 4003 15 (Warranty) and the Contractor's obligations under 4004 - Maintenance and Support Services for Licensed Software, the Contractor must provide the following services as part of the *SOLUTION's* Software Maintenance throughout the *SOLUTION's* Software Support Period, plus any period during which Canada has exercised its option under the Contract to extend the Software Maintenance. The Contractor must provide the Client with the most recent release(s) and version(s) of all Licensed Software included in the *SOLUTION* during the period of the Software Maintenance, as soon as they are available.
- (i) The Contractor must keep track of software releases for the purpose of configuration control.
- (ii) In addition to the Contractor's obligations under Section 4004 3 (Maintenance Releases), the Contractor must deliver the following software code as part of the Software Maintenance:
- (A) all Bug Fixes, Software Patches, and all other Enhancements;
 - (B) all Upgrades, updates, major and minor New Releases, and Renames;
 - (C) all Extensions and other modifications, including but not limited to drivers, service packs, and Service Releases;
 - (D) all application programming interfaces (APIs), plug-ins, applets and adapters;
 - (E) all rewrites, including in other programming language(s), where the original version(s) is no longer being maintained by the software publisher; and
 - (F) on request, all backgrades or downgrades; however, if these backgrades or downgrades are versions predating the version of the Licensed Software acquired from the Contractor, the backgrade or downgrade version is provided without warranty and the Contractor will have no obligation to provide Software Maintenance or Support Services for the backgrade or downgrade version of the Licensed Software,

which will be made available by the Software Publisher during the Software Support Period.

(iii) **Software Support:** In addition to the obligations set out in Supplemental General Conditions 4004, the Contractor must provide the following as part of the "Software Support" throughout the "Software Support Period". The Software Support include the following Technical Hotline Support and Web Support services:

(A) **Technical Hotline Support:** In addition to the requirements of Supplemental General Conditions 4004, the Contractor must provide the Technical Hotline Support through the Contractor's toll-free hotline at [Contractor's Hotline Number], in English and/or in French, from 8:00 A.M. to 5:00 P.M. Eastern Time, Monday to Friday (excluding statutory holidays observed by the federal government in the province from which the call is made). The Contractor must answer or return all calls (with a live service agent) within 60 minutes of the initial time of the Client or *GC USER's* initial call. The Contractor's personnel must be qualified and able to respond to the Client's and any *GC USER's* questions and, to the extent possible, be able to resolve user problems over the telephone and provide advice regarding configuration problems relating to the Licensed Software.

(B) **Web Support:** The Contractor must provide Canada with technical web support services through a website that must include, as a minimum, frequently asked questions and on-line software diagnostic routines, support tools, and services. The Contractor's website must provide support in English. The Contractor's website must be available to Canada's users 24 hours a day, 365 days a year, and must be available 99% of the time. The Contractor's website address is [Contractor's Website].

7.11 On-going Supply Chain Integrity Process

(a) **Supply Chain Integrity Process:** The Parties acknowledge that a Supply Chain Security Information Process Assessment was a key component of the procurement process that resulted in the award of this Contract. In connection with that assessment process, Canada assessed the Contractor's Supply Chain Security Information (SCSI) without identifying any security concerns. The following SCSI was submitted:

- (i) an IT Product List;
- (ii) a list of subcontractors; and
- (iii) network diagram(s).

This SCSI is included as Annex D - Supply Chain Security Information Process Assessment. The Parties also acknowledge that security is a critical consideration for Canada with respect to this Contract and that on-going assessment of SCSI will be required throughout the Contract Period. This Article governs that process.

(b) **Assessment of New SCSI:** During the Contract Period, the Contractor may need to modify the SCSI information contained in Annex D- Supply Chain Security Information Process Assessment. In that regard:

- (i) The Contractor, starting at contract award, must revise its SCSI at least once a month to show all changes made, as well as all deletions and additions to the SCSI that affect the services under the Contract (including Products deployed by its subcontractors) during that period; the list must be marked to show the changes made during the applicable period. If no changes have been made during the reporting month, the Contractor must advise the Contracting Authority in writing that the existing list is unchanged. Changes made to the IT Product List must be accompanied with revised Network Diagram(s) when applicable.

- (ii) The Contractor agrees that, during the Contract Period, it will periodically (at least once a year) provide the Contracting Authority with updates regarding upcoming new Products that it anticipates deploying in the Work (for example, as it develops its "technology roadmap" or similar plans). This will allow Canada to assess those Products in advance so that any security concerns can be identified prior to the Products being deployed in connection with the services being delivered under the Contract. Canada will endeavour to assess proposed new Products within 30 calendar days, although lengthier lists of Products may take additional time.
 - (iii) Canada reserves the right to conduct a complete, independent security assessment of all new SCSl. The Contractor must, if requested by the Contracting Authority, provide any information that Canada requires to perform its assessment.
 - (iv) Canada may use any government resources or consultants to conduct the assessment and may contact third parties to obtain further information. Canada may use any information, whether it is provided by the Contractor or comes from another source, that Canada considers advisable to conduct a comprehensive assessment of any proposed new SCSl.
- (c) **Identification of New Security Vulnerabilities in SCSl already assessed by Canada:**
 - (i) The Contractor must provide to Canada timely information about any vulnerabilities of which it becomes aware in performing the Work, including any weakness, or design deficiency, identified in any Product used to deliver services that would allow an unauthorized individual to compromise the integrity, confidentiality, access controls, availability, consistency or audit mechanism of the system or the data and applications it hosts.
 - (ii) The Contractor acknowledges that the nature of information technology is such that new vulnerabilities, including security vulnerabilities, are constantly being identified and, that being the case, new security vulnerabilities may be identified in SCSl that have already been the subject of an SCSl assessment and assessed without security concerns by Canada, either during the procurement process or later during the Contract Period.
- (d) **Addressing Security Concerns:**
 - (i) If Canada notifies the Contractor of security concerns regarding a Product that has not yet been deployed, the Contractor agrees not to deploy it in connection with this Contract without the consent of the Contracting Authority.
 - (ii) At any time during the Contract Period, if Canada notifies the Contractor that, in Canada's opinion, there is a Product that is being used in the Contractor's solution (including use by a subcontractor) that has been assessed as having the potential to compromise or be used to compromise the security of Canada's equipment, firmware, software, systems or information, then the Contractor must:
 - (A) provide Canada with any further information requested by the Contracting Authority so that Canada may perform a complete assessment;
 - (B) if requested by the Contracting Authority, propose a mitigation plan (including a schedule), within 10 business days, such as migration to an alternative Product. The Contracting Authority will notify the Contractor in writing if Canada approves the mitigation plan, or will otherwise provide comments about concerns or deficiencies with the mitigation plan; and
 - (C) implement the mitigation plan approved by Canada.

This process applies both to new Products and to Products that were already assessed pursuant to the Supply Chain Integrity Process assessment by Canada, but for which new security vulnerabilities have since been identified.

- (iii) Despite the previous Sub-article, if Canada determines in its discretion that the identified security concern represents a threat to national security that is both serious and imminent, the Contracting Authority may require that the Contractor immediately cease deploying the identified Product(s) in the Work. For Products that have already been deployed, the Contractor must identify and/or remove (as required by the Contracting Authority) the Product(s) from the Work according to a schedule determined by Canada. However, prior to making a final determination in this regard, Canada will provide the Contractor with the opportunity to make representations within 48 hours of receiving notice from the Contracting Authority. The Contractor may propose, for example, mitigation measures for Canada's consideration. Canada will then make a final determination.

(e) **Cost Implications:**

- (i) Any cost implications related to a demand by Canada to cease deploying or to remove a particular Product or Products will be considered and negotiated in good faith by the Parties on a case-by-case basis and may be the subject of a Contract Amendment. However, despite any such negotiations, the Contractor must cease deploying and/or remove the Product(s) as required by Canada. The negotiations will then continue separately. The Parties agree that, at a minimum, the following factors will be considered in their negotiations, as applicable:
- (A) with respect to Products already assessed without security concerns by Canada pursuant to an SCSi assessment, evidence from the Contractor of how long it has owned the Product;
 - (B) with respect to new Products, whether or not the Contractor was reasonably able to provide advance notice to Canada regarding the use of the new Product in connection with the Work;
 - (C) evidence from the Contractor of how much it paid for the Product, together with any amount that the Contractor has pre-paid or committed to pay with respect to maintenance and support of that Product;
 - (D) the normal useful life of the Product;
 - (E) any "end of life" or other announcements from the manufacturer of the Product indicating that the Product is or will no longer be supported;
 - (F) the normal useful life of the proposed replacement Product;
 - (G) the time remaining in the Contract Period;
 - (H) whether or not the existing Product or the replacement Product is or will be used exclusively for Canada or whether the Product is also used to provide services to other customers of the Contractor or its subcontractors;
 - (I) whether or not the Product being replaced can be redeployed to other customers;
 - (J) any training required for Contractor personnel with respect to the installation, configuration and maintenance of the replacement Products, provided the Contractor can demonstrate that its personnel would not otherwise require that training;

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- (K) any developments costs required for the Contractor to integrate the replacement Products into the Service Portal, operations, administration and management systems, if the replacement Products are Products not otherwise deployed anywhere in connection with the Work; and
 - (L) the impact of the change on Canada, including the number and type of resources required and the time involved in the migration.
- (ii) Additionally, if requested by the Contracting Authority, the Contractor must submit a detailed cost breakdown, once any work to address a security concern identified under this Article has been completed. The cost breakdown must contain an itemized list of all applicable cost elements related to the work required by the Contracting Authority and must be signed and certified as accurate by the Contractor's most senior financial officer, unless stated otherwise in writing by the Contracting Authority. Canada must consider the supporting information to be sufficiently detailed for each cost element to allow for a complete audit. In no case will any reimbursement of any expenses of the Contractor (or any of its subcontractors) exceed the demonstrated out-of-pocket expenses directly attributable to Canada's requirement to cease deploying or to remove a particular Product or Products.
 - (iii) Despite the other provisions of this Article, if the Contractor or any of its subcontractors deploys new Products that Canada has already indicated to the Contractor are the subject of security concerns in the context of the Work, Canada may require that the Contractor or any of its subcontractors immediately cease deploying or remove that Product. In such cases, any costs associated with complying with Canada's requirement will be borne by the Contractor and/or subcontractor, as negotiated between them. Canada will not be responsible for any such costs.
- (f) **General:**
- (i) The process described in this Article may apply to a single Product, to a set of Products, or to all Products manufactured or distributed by a particular supplier.
 - (ii) The process described in this Article also applies to subcontractors. With respect to cost implications, Canada acknowledges that the cost considerations with respect to concerns about subcontractors (as opposed to Products) may be different and may include factors such as the availability of other subcontractors to complete the work.
 - (iii) Any service levels that are not met due to a transition to a new Product or subcontractor required by Canada pursuant to this Article will not trigger a Service Credit, nor will a failure in this regard be taken into consideration for overall metric calculations, provided that the Contractor implements the necessary changes in accordance with the migration plan approved by Canada or proceeds immediately to implement Canada's requirements if Canada has determined that the threat to national security is both serious and imminent.
 - (iv) If the Contractor becomes aware that any subcontractor is deploying Products subject to security concerns in relation to the Work, the Contractor must immediately notify both the Contracting Authority and the Technical Authority and the Contractor must enforce the terms of its contract with its subcontractor. The Contractor acknowledges its obligations pursuant to General Conditions 2030, Subsection 9(3).
 - (v) Any determination made by Canada will constitute a decision with respect to a specific Product or subcontractor and its proposed use under this Contract, and does not mean that the same Product or subcontractor would necessarily be assessed in the same way if proposed to be used for another purpose or in another context.

(g) **Subcontracting**

- (i) Despite the General Conditions, none of the Work may be subcontracted (even to an affiliate of the Contractor) unless the Contracting Authority has first consented in writing. In order to seek the Contracting Authority's consent, the Contractor must provide the following information:
 - (A) the name of the subcontractor;
 - (B) the portion of the Work to be performed by the subcontractor;
 - (C) the Designated Organization Screening or the Facility Security Clearance (FSC) level of the subcontractor;
 - (D) the date of birth, the full name and the security clearance status of individuals employed by the subcontractor who will require access to Canada's facilities;
 - (E) completed sub-SRCL signed by the Contractor's Company Security Officer for CISC completion; and
 - (F) any other information required by the Contracting Authority.
- (ii) For the purposes of this Article, a "subcontractor" does not include a supplier who deals with the Contractor at arm's length whose only role is to provide telecommunications or other equipment or software that will be used by the Contractor to provide services, including if the equipment will be installed in the backbone or infrastructure of the Contractor.

(h) **Change of Control**

- (i) At any time during the Contract Period, if requested by the Contracting Authority, the Contractor must provide to Canada:
 - (A) an organization chart for the Contractor showing all related corporations and partnerships; for the purposes of this Sub-article, a corporation or partnership will be considered related to another entity if:
 - (I) they are "related persons" or "affiliated persons" according to the Canada *Income Tax Act*;
 - (II) the entities have now or in the two years before the request for the information *had a fiduciary* relationship with one another (either as a result of an agency arrangement or any other form of fiduciary relationship); or
 - (III) the entities otherwise do not deal with one another at arm's length, or *each of them* does not deal at arm's length with the same third party.
 - (B) a list of all the Contractor's shareholders; if the Contractor is a subsidiary, this information must be provided for each parent corporation or parent partnership, up to the ultimate owner; with respect to any publicly traded corporation, Canada anticipates that the circumstances in which it would require a complete list of shareholders would be unusual and that any request from Canada for a list of a publicly traded corporation's shareholders would normally be limited to a list of those shareholders who hold at least 1% of the voting shares;

- (C) a list of all the Contractor's directors and officers, together with each individual's home address, date of birth, birthplace and citizenship(s); if the Contractor is a subsidiary, this information must be provided for each parent corporation or parent partnership, up to the ultimate owner; and
- (D) any other information related to ownership and control that may be requested by Canada.

If requested by the Contracting Authority, the Contractor must provide this information regarding its subcontractors as well. However, if a subcontractor considers this information to be confidential, the Contractor may meet its obligation by having the subcontractor submit the information directly to the Contracting Authority. Regardless of whether the information is submitted by the Contractor or a subcontractor, Canada agrees to handle this information in accordance with Subsection 23(3) of General Conditions 2030 (General Conditions – Higher Complexity – Goods), provided the information has been marked as either confidential or proprietary.

- (ii) The Contractor must notify the Contracting Authority in writing of:
 - (A) any change of control in the Contractor itself;
 - (B) any change of control in any parent corporation or parent partnership of the Contractor, up to the ultimate owner; and
 - (C) any change of control in any subcontractor performing any part of the Work (including any change of control in any parent corporation or parent partnership of the subcontractor, up to the ultimate owner).
 - (D) The Contractor must provide this notice by no later than 10 Federal Government Working Days (FGWDs) after any change of control takes place (or, in the case of a subcontractor, within 15 FGWDs after any change of control takes place). Where possible, Canada requests that the Contractor provide advance notice of any proposed change of control transaction.
- (iii) In this Article, a "change of control" includes but is not limited to a direct or indirect change in the effective control of the corporation or partnership, whether resulting from a sale, encumbrance, or other disposition of the shares (or any form of partnership units) by any other means. In the case of a joint venture Contractor or subcontractor, this applies to a change of control of any of the joint venture's corporate or partnership members. In the case of a Contractor or subcontractor that is a partnership or limited partnership, this requirement also applies to any corporation or limited partnership that is a partner.
- (iv) In this Article, termination for convenience means that neither party will be liable to the other in connection with the change of control or the resulting termination, and Canada will only be responsible for paying for those services received up to the effective date of the termination.
- (v) Despite the foregoing, Canada's right to terminate for convenience will not apply to circumstances in which there is an internal reorganization that does not affect the ownership of the ultimate parent corporation or parent partnership of the Contractor or subcontractor, as the case may be; that is, Canada does not have a right to terminate the Contract pursuant to this Article where the Contractor or subcontractor continues, at all times, to be controlled, directly or indirectly, by the same ultimate owner. However, in any such case, the notice requirements of this Article still apply.

7.12 Contract Period

- (a) **Contract Period:** The "**Contract Period**" is the entire period of time during which the Contractor is obliged to perform the Work, which includes:
- (i) The "**Initial Contract Period**", which begins on the date the Contract is awarded and ends one year(s) later; and
 - (ii) The period during which the Contract is extended, if Canada chooses to exercise any options set out in the Contract.
- (b) **Option to Extend the Contract:**
- (i) The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to five (5) additional one-year period(s) under the same terms and conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions set out in the Basis of Payment.
 - (ii) Canada may exercise this option at any time by sending a written notice to the Contractor at least 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.

7.13 Delivery Date

All the deliverables must be received as per Annex A to the Contract.

7.14 Authorities

(a) **Contracting Authority**

The Contracting Authority for the Contract is:

Name: _____
Title: _____
PWGSC Acquisitions Directorate: _____
Address: _____
Telephone: _____
Facsimile: _____
E-mail address: _____

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.

(b) **Technical Authority**

The Technical Authority for the Contract is:

Name: _____
Title: _____
Organization: _____
Address: _____
Telephone: _____
Facsimile: _____
E-mail address: _____

In this person's absence, the Technical Authority is:

Name: _____
Title: _____
Organization: _____
Address: _____
Telephone: _____
Facsimile: _____
E-mail address: _____

The Technical 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 Technical Authority; however, the Technical 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.

(c) Client Administrative Contact

The Client Administrative Contact the Contract is:

Name: _____
Title: _____
Organization: _____
Address: _____
Telephone: _____
Facsimile: _____
E-mail address: _____

The Client Administrative Contact must receive the original Invoice. All inquiries for request for payment must be made to the Client Administrative Contact.

(d) Contractor's Representative

(The Contractor's Representative and Executive Authority for the contract is: (to be confirmed at contract award)

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: _____ - _____ - _____
Facsimile: _____ - _____ - _____
E-mail address: _____

The Contractor must identify a representative who will act as the Project Manager (PM) and will hold the highest level of resolution and approval authority on behalf of the Contractor. The PM should be available during core business hours EST at the request of the Contracting and Technical Authority.

The Contractor's representative must inform the PWGSC Contracting Authority of any verbal or written requests or instructions from anybody other than the PWGSC Contracting Authority, that would be considered a change to the Contract or considered in excess of or outside the scope of the Contract.

7.15 Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a [Public Service Superannuation Act](#) (PSSA) pension, the Contractor has agreed that this information will be reported on departmental websites as part of the published proactive disclosure reports, in accordance with [Contracting Policy Notice: 2012-2](#) of the Treasury Board Secretariat of Canada.

7.16 Payment

(a) Basis of Payment

For the satisfactory performance of the Work in accordance with the Contract, the Contractor will be paid in accordance with the Contract Line Item Number (CLIN) as detailed in this Basis of Payment.

Payment for all of the Work will be made in Canadian currency.

All Goods, when applicable, must be FOB destination, all customs duties included.

HST/GST is extra as applicable and payable in accordance with section 2030 14 (Taxes) of 2030 (2016-04-04) General Conditions - Higher Complexity – Goods of this Contract.

- (i) **CLIN 01 – Core Work:** For the license to use the Licensed Software included in the *SOLUTION* (including delivery, development and configuration of the Licensed Software *SOLUTION* for fifty (50) concurrent *GC USERS* and the Software Documentation, including all deliverables and all Work in accordance with the Contract, Canada will pay the Contractor the **firm price** inclusive of Mark Up and Profit as set out at Table 01 in Annex B.

The firm price include the warranty during the *SOLUTION*'s Software Warranty Period.

- (ii) **CLIN 02 –Maintenance and Support for Licensed Software *SOLUTION* for the initial Contract Period:** For the *SOLUTION*'s Software Maintenance and Support services throughout the initial Maintenance and Support Contract Period starting from Canada's acceptance of the *SOLUTION* in accordance with the Contract, Canada will pay the Contractor, in advance, the **firm price** inclusive of Mark Up and Profit as set out at Table 02 in Annex B.

The cost for the *SOLUTION*'s Software Maintenance and Support Services for initial the Contract period will be calculated as follows:

- (A) Cost for the *SOLUTION*'s Software Maintenance and Support for Contract Year 1 divided by 12, then multiplied by the number of months and/or partial month remaining in the Maintenance and Support Period based on the date of Canada's acceptance of the *SOLUTION*.
- (iii) **CLIN 03 – Optional Maintenance and Support for Licensed Software *SOLUTION*:** If Canada exercises its options to extend the *SOLUTION*'s Software Maintenance and Support Period for fifty (50) concurrent *GC USERS* for up to five (5) one-year periods, Canada will pay in advance the Contractor for each exercised year the **firm price** inclusive of Mark Up and Profit as set out at Table 03 in Annex B.

(iv) **CLIN 04 – Option to add GC User(s) to the Licensed Software SOLUTION:** If Canada exercises its option to add a GC USER for up to 50 additional concurrent GC USER(s), Canada will pay the Contractor the firm price for each additional GC USER inclusive of Mark Up and Profit as per Table 04 in Annex B.

(v) **CLIN 05 – Optional SOLUTION's Software Support for Additional GC USER(s):** If Canada exercise its option to add up to fifty (50) additional concurrent GC USER(s) for Contract optional Year 1 through Year 5, Canada will pay the Contractor the additional **firm price** inclusive of Mark Up and Profit per GC USER for each exercised year for the SOLUTION's Software Maintenance and Support as per Table 05 in Annex B.

The Cost for Software Maintenance and Support for the SOLUTION for each exercised Year will be calculated as follows:

(A) Cost for Software Maintenance and Support for the SOLUTION per concurrent GC USER multiplied by the number of concurrent GC USER required then multiplied by number of 12 months or months remaining in the Software Support Contract Year if Canada exercised its option to purchase additional concurrent GC USERS during the Software Support Period of the SOLUTION.

(vi) **CLIN 06 – Additional Work Requirements (AWRs) provided under a Task Authorization - Task Authorization with a Firm Price:** For professional services requested by Canada, in accordance with a validly issued Task Authorization, Canada will pay the Contractor the negotiated firm price as set out in the Task Authorization (based on the firm, all-inclusive per diem rates set out at Table 06 in Annex B).

(vii) **CLIN 07 – Early Delivery Incentive:** If the Contractor delivers the Test Cases and the Initial Test Version for the SOLUTION Accepting Testing deliverables in accordance with D2 and D3 respectively to paragraph 6.1 – (Product Deliverables) to Annex A, **at least 25 working days prior to April 3, 2017** and subject to acceptance by Canada in accordance with the Contract, and the SOLUTION works, is complete and compliant to the contents of the Annex A (SRS), delivered and fully implemented within the Statistics Canada production environment no later than **July 3, 2017**, the Contractor will be paid an incentive fee of **\$50,000.00** for an early delivery.

(viii) **CLIN 08 – Exchange Rate Fluctuation Adjustment (if requested by the Bidder in its proposal)**

(A) The foreign currency component (FCC) is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuation. 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.

(B) For each line item where a FCC is identified, Canada assumes the risks and benefits for exchange rate fluctuation, as shown in the Basis of Payment. For such items, the exchange rate fluctuation amount is determined in accordance with the provision of this clause.

(C) 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 provisions in the contract. The exchange rate adjustment amount will be calculated in accordance with the following formula:

$$\text{Adjustment} = \text{FCC} \times \text{Qty} \times (i_1 - i_0) / i_0$$

where formula variables correspond to:

FCC Foreign Currency Component (per unit)

i0 Initial exchange rate (CAN\$ per unit of foreign currency [e.g. US\$1])

i1 exchange rate for adjustments (CAN\$ per unit of foreign currency [e.g. US\$1])

Qty quantity of units

- (D) The initial exchange rate is typically set as the noon rate as published by the Bank of Canada on the solicitation closing date.
- (E) For goods, the exchange rate for adjustment will be the noon rate as published by the Bank of Canada on the date the goods were delivered. For services, the exchange rate for adjustment will be the noon rate on the last business day of the month for which the services were performed. For advance payments, the exchange rate for adjustment will be the noon rate on the date the payment was due. The most recent noon rate will be used for non-business days.
- (F) The Contractor must indicate the total exchange rate adjustment amount (either upward, downward or no change) as a separate item on each invoice or claim for payment submitted under the Contract. Where an adjustment applies, the Contractor must submit with their invoice form PWGSC-TPSGC 450The information is only accessible to federal government department and agency employees. Claim for Exchange Rate Adjustments.
- (G) The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease), calculated in accordance with column 8 of form PWGSC-TPSGC 450The information is only accessible to federal government department and agency employees. (i.e [i1 - i0) / i0]).
- (H) Canada reserves the right to audit any revision to costs and prices under this clause.
- (ix) **Travel and Living Expenses – National Joint Council Travel Directive** The Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the National Joint Council Travel Directive and with the other provisions of the directive referring to “travellers”, rather than those referring to “employees”. All travel must have the prior authorization of the Contracting Authority. All payments are subject to government audit.
- (x) **Competitive Award:** The Contractor acknowledges that the Contract has been awarded as a result of a competitive process. No additional charges will be allowed to compensate for errors, oversights, misconceptions or underestimates made by the Contractor when bidding for the Contract.

Professional Services Rates: In Canada's experience, bidders from time to time propose rates at the time of bidding for one or more categories of resources that they later refuse to honour, on the basis that these rates do not allow them to recover their own costs and/or make a profit. This denies Canada of the benefit of the awarded contract. If the Contractor does not respond or refuses to provide an individual with the qualifications described in the Contract within the time described in the Contract (or proposes instead to provide someone from an alternate category at a different rate), whether or not Canada terminates the Contract as a whole or in part or chooses to exercise any of the rights provided to it under the General Conditions, Canada may impose sanctions or take other measures in accordance with the PWGSC Vendor

Performance Corrective Measure Policy (or equivalent) then in effect, which measures may include an assessment that results in conditions applied against the Contractor to be fulfilled before doing further business with Canada, or full debarment of the Contractor from bidding on future requirements.

(b) **Limitation of Price**

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.

(c) **Limitation of Expenditure - Cumulative Total of all Task Authorizations**

- (i) Canada's total liability to the Contractor under the Contract for all validly issued AWR Task Authorizations (TAs), inclusive of any revisions, must not exceed the sum of \$ _____. Customs duties are included and Applicable Taxes are extra.
- (ii) No increase in the total liability of Canada will be authorized or paid to the Contractor unless an increase has been approved, in writing, by the Contracting Authority.
- (iii) 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) 4 months before the Contract expiry date, or
 - (C) as soon as the Contractor considers that the sum is inadequate for the completion of the Work required in all authorized TAs, inclusive of any revisions,whichever comes first.
- (iv) 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.

(d) **Method of Payment - Payment for CLIN 01**

CLIN01-01

Canada will pay the Contractor upon completion and delivery of the SOLUTION in accordance with the payment provisions of the Contract up to 80% claimed at **CLIN 01**, if:

- (i) an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- (ii) all such documents have been verified by Canada;
- (iii) the SOLUTION delivered and passes the acceptance test by Canada.

CLIN01-02: the remaining of the **20%** of **CLIN 01** will be paid as follows:

- (i) **CLIN01-02a:** Canada will pay the Contractor 10% of **CLIN 01** if the SOLUTION works, is complete and compliant to the contents of Annex A (SRS) and is delivered and fully implemented within the Statistics Canada production environment by July 3, 2017 at the latest.

- (ii) **CLIN01-02b:** Canada will pay the Contractor 10% of **CLIN 01** upon acceptance by Canada of all deliverables in Annex A (SRS).

(e) **Method of Payment - Payment for CLIN 04**

Canada will pay the Contractor upon completion and delivery of the Work in accordance with the payment provisions at CLIN 04, if:

- (i) an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- (ii) all such documents have been verified by Canada;
- (iii) the Work delivered has been accepted by Canada.

(f) **Method of Payment for AWRs - Task Authorizations with a Firm Price - Lump Sum Payment on Completion:** Canada will pay the Contractor upon completion and delivery of all the Work associated with the validly issued AWR Task Authorization in accordance with the payment provisions of the Contract if:

- (i) an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- (ii) all such documents have been verified by Canada;
- (iii) the Work delivered has been accepted by Canada.

(g) **Method of Payment - Advance Payment for CLIN 02, CLIN 03 and CLIN 05**

- (i) Canada will pay the Contractor in advance for the *SOLUTION*'s Software Maintenance and Support services the firm price(s) set out in Annex B, if:
 - (A) An accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
 - (B) All such documents have been verified by Canada.
- (ii) Payment in advance does not prevent Canada from exercising any or all potential remedies in relation to this payment or any of the Work, if the Work performed later proves to be unacceptable.

(h) **Time Verification**

Time charged and the accuracy of the Contractor's time recording system are subject to verification by Canada, before or after payment is made to the Contractor. If verification is done after payment, the Contractor must repay any overpayment, at Canada's request.

(i) **Payment Credits**

- (i) **Late Delivery:** If the Contractor does not deliver the Test Cases and Initial Test version for *SOLUTION* Acceptance Testing at D2 and D3 respectively of paragraph 6.1 – Product Deliverables to Annex A, within the time specified in the Contract, the Contractor must provide a credit to Canada of **one (1)%** of CLIN 01 for each working of delay up to a maximum of **10 days**, subject to the limitation that the total amount of liquidated damages will not exceed **10%** of CLIN 01 of the Work delivered late.

- (ii) **Credits represent Liquidated Damages:** The Parties agree that the credits are liquidated damages and represent their best pre-estimate of the loss to Canada in the event of the applicable failure. No credit is intended to be, nor will it be construed as, a penalty.
- (iii) **Canada's Right to Obtain Payment:** The Parties agree that these credits are a liquidated debt. To collect the credits, Canada has the right to hold back, draw back, deduct or set off from and against any money Canada owes to the Contractor from time to time.
- (iv) **Canada's Rights & Remedies not Limited:** The Parties agree that nothing in this Article limits any other rights or remedies to which Canada is entitled under the Contract (including the right to terminate the Contract for default) or under the law generally.

7.17 Award of Contract

- (a) The Contractor acknowledges that the following contract has been entered into by Canada for the provision of Visually Statistically Intelligent Adaptive Data Viewing Solution.
- (b) The Contractor acknowledges that upon award, ***insert name of 2nd ranked compliant Bidder, if applicable*** (the "second-ranked Bidder") submitted a bid in response to the Visually Statistically Intelligent Adaptive Data Viewing Solution RFP that Canada determined was fully compliant and ranked second according to the evaluation methodology in the Visually Statistically Intelligent Adaptive Data Viewing Solution RFP. During the 8 weeks following the award of this Contract, if the second-ranked Bidder confirms to Canada that it will honour its bid (regardless of whether that bid has otherwise expired), Canada may, in its absolute discretion, do any of the following:
 - (i) Award a new contract for the Visually Statistically Intelligent Adaptive Data Viewing Solution to the second-ranked Bidder, if the awarded Contract has been terminated for default. Pursuant to any such new contract, the second-ranked Bidder will be subject to the same requirements established under this Contract to complete the deliverables of Annex A Software Requirements Specifications and achieve acceptance for *THE SOLUTION*. During that time, Canada will issue any TA to the other contractor, provided that contractor has delivered *THE SOLUTION* and achieved *THE SOLUTION* acceptance tests. For greater certainty, Canada will have no obligation to delay the issuance of any TAs to the new contractor.
 - (ii) Award a second contract for Visually Statistically Intelligent Adaptive Data Viewing Solution RFP to the second-ranked Bidder, if the Contractor has not completed and received acceptance for the Solution, by 10 weeks after Contract award.

7.18 Implementation Milestones & Remedies

- (a) There are two implementation milestones:
 - (i) Canada's acceptance of the work performed during the Solution Design/Development Milestones phase/stage within 50 FGWDs of Contract award; and
 - (ii) Canada's acceptance of the completion of Fully Functional within 10 weeks of Canada's acceptance of the work performed during the Solution Design/Development Milestones phase/stage.
- (b) If the required work has not been completed and accepted 60 FGWDs after the original deadline, subject to Excusable Delay, the Parties agree that this constitutes a fundamental breach of the Contract and that Canada may:

- (i) terminate the Contract for default, without providing any further notice or opportunity to cure;
 - (ii) regardless of whether Canada terminates the Contract for default, award a Contract to the second-ranked Bidder in accordance with the Article entitled "Award of Contracts";
 - (iii) cancel any existing TAs; and
- (c) The Contractor further agrees that these are not the only circumstances in which the Contract can be terminated for default, as this clause does not detract from or alter Canada's rights pursuant to Section 31 of General Conditions 2030.

7.19 Invoicing Instructions

- (a) The Contractor must submit invoices in accordance with the information required in the General Conditions.
- (b) The Contractor's invoice must include a separate line item for each subparagraph in the Basis of Payment provision.
- (c) By submitting invoices other than for any items subject to an advance payment, the Contractor is certifying that the goods and services have been delivered and that all charges are in accordance with the Basis of Payment provision of the Contract, including any charges for work performed by subcontractors.
- (d) The Contractor must provide the original of each invoice to the Technical Authority, and a copy to the Contracting Authority.

7.20 Certifications

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, or fails to provide the additional information, 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.

7.21 Federal Contractors Program for Employment Equity - Default by Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-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 ESDC will constitute the Contractor in default as per the terms of the Contract.

7.22 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in **As per Bidder's proposal**.

7.23 Priority of Documents

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

- (a) these Articles of Agreement, including any individual SACC Manual clauses incorporated by reference in these Articles of Agreement;
- (b) supplemental general conditions, in the following order:
 - (i) 4002 (2010-08-16), Supplemental General Conditions - Software Development or Modification Services;
 - (ii) 4003 (2010-08-16), Supplemental General Conditions - Licensed Software;
 - (iii) 4004 (2013-04-25), Supplemental General Conditions - Maintenance and Support Services for Licensed Software;
 - (iv) 4006 (2010-08-16), Supplemental General Conditions - Contractor to Own Intellectual Property Rights in Foreground Information;
- (c) general conditions 2030 (2016-04-04), General Conditions – Higher Complexity - Goods;
- (d) Annex A, Software Requirement Specifications;
- (e) Annex B, Basis of Payment;
- (f) Annex C, Task Authorizations (including signed Task Authorizations and annexes);
- (g) Annex D, SUPPLY CHAIN SECURITY INFORMATION ASSESSMENT PROCESS;
- (h) Annex E, Performance Guarantee , a separate agreement to be signed by _____ in accordance with the Article entitled "Performance Guarantee";
- (i) the Contractor's bid dated _____ (insert date of bid), as clarified on _____ "or" as amended on _____ (insert date(s) of clarification(s) or amendment(s) if applicable), not including any software publisher license terms and conditions that may be included in the bid, not including any provisions in the bid with respect to limitations on liability, and not including any terms and conditions incorporated by reference (including by way of a web link) in the bid.

7.24 Performance Guarantee

It is a condition of the Contract that the Contractor provides to Canada an unconditional and irrevocable guarantee of the performance and fulfillment of each and every obligation of the Contractor under the Contract. This guarantee must be in the form set out in Annex E (to be provided at contract award) and be executed under seal (if required by Canada) by _____. If the Contractor does not deliver the fully executed guarantee within 10 working days of the Contract being awarded, Canada may immediately terminate the Contract for default and will have no liability to the Contractor for any of the Work performed before that termination. Obtaining and delivering the signed guarantee within the time required is the sole responsibility of the Contractor.

Note to Bidders: A performance guarantee might be required, for example, as a result of the financial capability review of the Bidder. If a performance guarantee is not required, this sub-article will be deleted at the time of contract award. If the bid solicitation makes the performance guarantee a condition precedent to the award of the contract, it does not need to be included as an annex or listed in the order of priority of documents, because it will already have been signed before contract award.

7.25 Foreign Nationals (Canadian Contractor)

- (a) SACC Manual clause A2000C (2006-06-16) Foreign Nationals (Canadian Contractor)

Note to Bidders: *Either this clause or the one that follows, whichever applies (based on whether the successful Bidder is a Canadian Contractor or Foreign Contractor), will be included in any resulting contract*

7.26 Foreign Nationals (Foreign Contractor)

- (a) SACC Manual clause A2001C (2006-06-16) Foreign Nationals (Foreign Contractor)

7.27 Insurance Requirements

- (a) SACC Manual clause G1005C (2016-01-28) Insurance Requirements

7.28 Limitation of Liability

- (a) This section applies despite any other provision of the Contract and replaces the section of the general conditions entitled "Liability". Any reference in this section to damages caused by the Contractor also includes damages caused by its employees, as well as its subcontractors, agents, and representatives, and any of their employees. This section applies regardless of whether the claim is based in contract, tort, or another cause of action. The Contractor is not liable to Canada with respect to the performance of or failure to perform the Contract, except as described in this section and in any section of the Contract pre-establishing any liquidated damages. The Contractor is only liable for indirect, special or consequential damages to the extent described in this Article, even if it has been made aware of the potential for those damages.
- (b) **First Party Liability:**
- (i) The Contractor is fully liable for all damages to Canada, including indirect, special or consequential damages, caused by the Contractor's performance or failure to perform the Contract that relate to:
 - (A) any infringement of intellectual property rights to the extent the Contractor breaches the section of the General Conditions entitled "Intellectual Property Infringement and Royalties";
 - (B) physical injury, including death.
 - (ii) The Contractor is liable for all direct damages caused by the Contractor's performance or failure to perform the Contract affecting real or tangible personal property owned, possessed, or occupied by Canada.
 - (iii) Each of the Parties is liable for all direct damages resulting from its breach of confidentiality under the Contract. Each of the Parties is also liable for all indirect, special or consequential damages in respect of its unauthorized disclosure of the other Party's trade secrets (or trade secrets of a third party provided by one Party to another under the Contract) relating to information technology.
 - (iv) The Contractor is liable for all direct damages relating to any encumbrance or claim relating to any portion of the Work for which Canada has made any payment. This does not apply to encumbrances or claims relating to intellectual property rights, which are addressed under (i)(A) above.

- (v) The Contractor is also liable for any other direct damages to Canada caused by the Contractor's performance or failure to perform the Contract that relate to:

- (A) any breach of the warranty obligations under the Contract, up to the total amount paid by Canada (including any applicable taxes) for the goods and services affected by the breach of warranty; and
- (B) any other direct damages, including all identifiable direct costs to Canada associated with re-procuring the Work from another party if the Contract is terminated by Canada either in whole or in part for default, up to an aggregate maximum for this subparagraph (B) of the greater of 0.25 times the total estimated cost (meaning the dollar amount shown on the first page of the Contract in the cell titled "Total Estimated Cost" or shown on each call-up, purchase order or other document used to order goods or services under this instrument), or \$1,000,000.00.

In any case, the total liability of the Contractor under subparagraph (v) will not exceed the total estimated cost (as defined above) for the Contract or \$1,000,000.00, whichever is more.

- (vi) If Canada's records or data are harmed as a result of the Contractor's negligence or willful act, the Contractor's only liability is, at the Contractor's own expense, to restore Canada's records and data using the most recent back-up kept by Canada. Canada is responsible for maintaining an adequate back-up of its records and data.

(c) Third Party Claims:

- (i) Regardless of whether a third party makes its claim against Canada or the Contractor, each Party agrees that it is liable for any damages that it causes to any third party in connection with the Contract as set out in a settlement agreement or as finally determined by a court of competent jurisdiction, where the court determines that the Parties are jointly and severally liable or that one Party is solely and directly liable to the third party. The amount of the liability will be the amount set out in the settlement agreement or determined by the court to have been the Party's portion of the damages to the third party. No settlement agreement is binding on a Party unless its authorized representative has approved the agreement in writing.
- (ii) If Canada is required, as a result of joint and several liability or joint and solidarily liable, to pay a third party in respect of damages caused by the Contractor, the Contractor must reimburse Canada by the amount finally determined by a court of competent jurisdiction to be the Contractor's portion of the damages to the third party. However, despite Sub-article (i), with respect to special, indirect, and consequential damages of third parties covered by this Section, the Contractor is only liable for reimbursing Canada for the Contractor's portion of those damages that Canada is required by a court to pay to a third party as a result of joint and several liability that relate to the infringement of a third party's intellectual property rights; physical injury of a third party, including death; damages affecting a third party's real or tangible personal property; liens or encumbrances on any portion of the Work; or breach of confidentiality.

The Parties are only liable to one another for damages to third parties to the extent described in this Sub-article (c).

7.29 Joint Venture Contractor

- (a) The Contractor confirms that the name of the joint venture is _____ and that it is comprised of the following members: *[list all the joint venture members named in the Contractor's original bid]*.

- (b) With respect to the relationship among the members of the joint venture Contractor, each member agrees, represents and warrants (as applicable) that:
- (i) _____ has been appointed as the "representative member" of the joint venture Contractor and has full authority to act as agent for each member regarding all matters relating to the Contract;
 - (ii) by giving notice to the representative member, Canada will be considered to have given notice to all the members of the joint venture Contractor; and
 - (iii) all payments made by Canada to the representative member will act as a release by all the members.
- (c) All the members agree that Canada may terminate the Contract in its discretion if there is a dispute among the members that, in Canada's opinion, affects the performance of the Work in any way.
- (d) All the members are jointly and severally or solidarily liable for the performance of the entire Contract.
- (e) The Contractor acknowledges that any change in the membership of the joint venture (i.e., a change in the number of members or the substitution of another legal entity for an existing member) constitutes an assignment and is subject to the assignment provisions of the General Conditions.
- (f) The Contractor acknowledges that all security and controlled goods requirements in the Contract, if any, apply to each member of the joint venture Contractor.

Note to Bidders: This Article will be deleted if the Bidder awarded the contract is not a joint venture. If the contractor is a joint venture, this clause will be completed with information provided in its bid.

7.30 Safeguarding Electronic Media

- (a) Before using them on Canada's equipment or sending them to Canada, the Contractor must use a regularly updated product to scan electronically all electronic media used to perform the Work for computer viruses and other coding intended to cause malfunctions. The Contractor must notify Canada if any electronic media used for the Work are found to contain computer viruses or other coding intended to cause malfunctions.
- (b) If magnetically recorded information or documentation is damaged or lost while in the Contractor's care or at any time before it is delivered to Canada in accordance with the Contract, including accidental erasure, the Contractor must immediately replace it at its own expense.

7.31 TECHNICAL DOCUMENTATION DELIVERABLES ACCEPTANCE FRAMEWORK

- (a) Technical Documentation Deliverable Acceptance Framework
- (i) Unless otherwise specified Canada will use the following Technical Documentation Deliverables Acceptance Framework for all of the Contractor's Technical Documentation deliverables identified in Section 6 to Annex A of the Contract:

- (A) Technical Documentation Deliverables must be sent to the Technical Authority, with a copy to the CA, as per the requirements identified in Annex A to the Contract;
- (B) Technical Documentation Deliverables received by the Technical Authority will be considered draft until accepted by the Technical Authority. If not accepted by the Technical Authority, the Technical Authority will provide its feedback, with copy to the CA, on the technical documentation deliverable to the Contractor within 10 business days following receipt;
- (C) Upon receipt of this feedback by the Contractor, the Contractor and TA may agree to jointly review the feedback prior to its incorporation into the final Technical Documentation Deliverable;
- (D) The Contractor must submit the revised technical documentation deliverable to the Technical Authority, with a copy to the CA, within 10 business days of the receipt of Technical Authority's feedback, or the joint review of the feedback, whichever is later.
- (E) The Contractor and Canada may mutually agree to different timelines or an alternate process for given deliverable(s) than the prescribed above.

(b) **Acceptance or Rejection of Technical Documentation Deliverables**

- (i) Canada reserves the right to reject Technical Documentation Deliverables. At the end of the review period as identified in 7.31 (a), the Technical Authority will, in writing, either: (1) accept the deliverable; (2) reject the deliverable, identifying reasons for rejection; or (3) continue the acceptance period in accordance with a mutually-agreed time period for continued review.
- (ii) In the event that Canada rejects a Technical Documentation Deliverables, the Contractor must promptly resolve any outstanding issues that are required in order for the Technical Documentation Deliverables to meet all applicable acceptance criteria. Canada will cooperate in the Contractor's efforts to resolve any problems, including indicating the reasons for rejection, and will not unreasonably withhold acceptance.
- (iii) Canada will give the Contractor timely written notice of acceptance of a Technical Documentation Deliverables when the deliverable has satisfied the acceptance criteria. A Technical Documentation Deliverables will be deemed to be accepted by Canada only upon written notice of acceptance.

(c) **Re-submission of a Rejected Technical Documentation Deliverable**

- (i) When re-submitting a previously rejected Technical Documentation Deliverable to Canada, the Contractor must produce a written document that provides a high-level description of how the deliverable was modified from its previously submitted state, and how this modification will address the concern documented by Canada in the rejection document. Emphasis is to be on establishing conformance with the previously unmet requirements noted in the Technical Documentation Deliverable rejection document. This is to both provide assurance that Canada's needs have been met, and to accelerate the Acceptance Period by enabling Canada to focus on reviewing the modifications made by the Contractor. The Contractor must identify any changes or issues that were not addressed and provide rationale as to why these changes were not included.

(d) **Technical Documentation Deliverable Submission Process**

- (i) In order to avoid acceptance delays, inconsistencies and contradictions in related Technical Documentation Deliverables, the Contractor should take measures to avoid submitting technical documentation deliverables at the same time, unless stipulated in the Contract. If the Contractor submits multiple Technical Documentation Deliverables at the same time, outside the stipulated deliverable dates in the Contract, Canada reserves the right for additional review time and will adjust Article 7.26(a) accordingly.

7.32 Representations and Warranties

The Contractor made statements regarding its proposed resources experience and expertise in its bid that resulted in the award of the Contract and the issuance of TA's. The Contractor represents and warrants that all those statements are true and acknowledges that Canada relied on those statements in awarding the Contract and adding work to it through TA's. The Contractor also represents and warrants that it has, and all its resources and subcontractors that perform the Work have, and at all times during the Contract Period they will have, the skills, qualifications, expertise and experience necessary to perform and manage the Work in accordance with the Contract, and that the Contractor (and any resources or subcontractors it uses) has previously performed similar services for other customers.

7.33 Access to Canada's Property and Facilities

Canada's property, facilities, equipment, documentation, and personnel are not automatically available to the Contractor. If the Contractor would like access to any of these, it is responsible for making a request to the Technical Authority. Unless expressly stated in the Contract, Canada has no obligation to provide any of these to the Contractor. If Canada chooses, in its discretion, to make its property, facilities, equipment, documentation or personnel available to the Contractor to perform the Work, Canada may require an adjustment to the Basis of Payment and additional security requirements may apply.

7.34 Termination for Convenience

With respect to Section 32 of 2030, if applicable, subsection 4 is deleted and replaced with the following subsections 4, 5 and 6:

- 4. The total of the amounts, to which the Contractor is entitled to be paid under this section, together with any amounts paid, due or becoming due to the Contractor must not exceed the Contract Price.
- 5. Where the Contracting Authority terminates the entire Contract and the Articles of Agreement include a Minimum Work Guarantee, the total amount to be paid to the Contractor under the Contract will not exceed the greater of
 - (a) the total amount the Contractor may be paid under this section, together with any amounts paid, becoming due other than payable under the Minimum Revenue Guarantee, or due to the Contractor as of the date of termination, or
 - (b) the amount payable under the Minimum Work Guarantee, less any amounts paid, due or otherwise becoming due to the Contractor as of the date of termination.
- 6. The Contractor will have no claim for damages, compensation, loss of profit, allowance arising out of any termination notice given by Canada under this section except to the extent that this section expressly provides. The Contractor agrees to repay immediately to Canada the portion of any advance payment that is unliquidated at the date of the termination.

7.35 Identification Protocol Responsibilities – for Professional Services Work

The Contractor will be responsible for ensuring that each of its agents, representatives or subcontractors (hereinafter referred to as Contractor Representatives) complies with the following self-identification requirements:

- (a) Contractor Representatives who attend a Government of Canada meeting (whether internal or external to Canada's offices) must identify themselves as Contractor Representatives prior to the commencement of the meeting, to ensure that each meeting participant is aware of the fact that the individual is not an employee of the Government of Canada;
- (b) During the performance of any Work at a Government of Canada site, each Contractor Representative must be clearly identified at all times as being a Contractor Representative; and
- (c) If a Contractor Representative requires the use of the Government of Canada's e-mail system in the performance of the Work, then the individual must clearly identify him or herself as an agent or subcontractor of the Contractor in all electronic mail in the signature block as well as under "Properties." This identification protocol must also be used in all other correspondence, communication, and documentation.
- (d) If Canada determines that the Contractor is in breach of any obligation stated in this Article, upon written notice from Canada the Contractor must submit a written action plan describing corrective measures it will implement to eliminate the recurrence of the problem. The Contractor will have five working days to deliver the action plan to the Client and the Contracting Authority, and twenty working days to rectify the underlying problem.
- (e) In addition to any other rights it has under the Contract, Canada may terminate the Contract for default if the corrective measures required of the Contractor described above are not met.

ANNEX A

SOFTWARE REQUIREMENT SPECIFICATION (SRS)

VISUALLY STATISTICALLY INTELLIGENT ADAPTIVE DATA VIEWING SOLUTION

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1 BUSINESS REQUIREMENT

Statistics Canada requires a *SOLUTION* to create presentation layers in the form of statistical *DASHBOARDS* that works, is complete and compliant to the contents of this specification and can be maintained and extended to accommodate possible future Information Technology (*IT*) architectures (e.g., Hosted Software Services, platforms and/or infrastructures) and design trends.

2 PRIORITIES

As Canada's central statistical agency, Statistics Canada's mandate is to collect, compile, analyze, abstract and publish statistical information relating to the commercial, industrial, financial, social, economic and general activities and conditions of the people of Canada.

The objective of Statistics Canada's dissemination programs are to provide users with statistical information that is relevant, accessible and easy to interpret. Traditionally, statistical information has been released through analytical reports, data tables and maps. A new initiative of Statistics Canada is seeking to use *DATA VISUALIZATION* to improve the way statistical information is communicated.

To meet this objective Statistics Canada is seeking innovative proposals from industry for a *DATA VISUALIZATION SOLUTION* that can be used to create web-based presentation layers (web pages) that combine many visual communication elements such as thematic maps, charts, graphics and images, in addition to textual information in a single '*DASHBOARD*' that is adaptive and can be easily interpreted users.

3 CONTEXT

DATA VISUALIZATION refers to the techniques used to communicate data or information by encoding it as visual objects (e.g., points, lines, bars, and symbols) contained in graphics. The goal is to communicate information clearly and efficiently to users through graphical means. To convey ideas effectively, both aesthetic form and functionality need to go hand in hand, providing insights into complex data sets by communicating key-aspects in a more intuitive way. To achieve this goal there needs to be a balance between form and function. Simply creating gorgeous *DATA VISUALIZATIONS* that fail to communicate information does not meet the objective. A well-crafted *DATA VISUALIZATION* helps uncover trends, realize insights, explore sources, and tell stories.

For the 2011 Census of population, Statistics Canada developed a basic *DATA VISUALIZATION* application called the *Focus on Geography Series (FoGS)*¹. The FoGS application allowed users to select a *GEOGRAPHIC AREA* (e.g., the Census Subdivision of Ottawa, the province of Ontario) and then presented data highlights for the selected *GEOGRAPHIC AREA* for each of the major releases of the 2011 Census. These data highlights were presented through figures, tables and text which was generated using statistical information in the form of key *INDICATORS* and predefined text templates. The *GEOGRAPHIC LEVELS* presented in this product include Canada, Provinces and Territories, Census Metropolitan Areas and Census Agglomerations (*CMA/CA*), and selected Census Subdivisions (*CSD*). The 2011 FoGs application was well received and remains one of Statistics Canada's most popular products.

Statistics Canada is looking to build on the success of the 2011 FoGs application and develop a new more advanced *DATA VISUALIZATION SOLUTION* that will allow the agency to make its statistical information more interpretable by presenting key *INDICATORS* in web-based presentation layers designed as statistical *DASHBOARDS*. The *DATA VISUALIZATION SOLUTION* specified in this *SRS* must enable Statistics Canada to create presentation layers that allow *END-USERS* to easily find statistical information about a *GEOGRAPHIC AREA*, compare *INDICATOR* values for different *GEOGRAPHIC AREAS* and help *END-USERS* identify relationships between *INDICATORS*. The *SOLUTION* must facilitate the creation of presentation layers and business rules that control the behavior of the views presented to *END-USERS* so that they can easily answer questions like:

- What are the top ten ethnic origins reported in each of the *CMAs* of Montréal, Ottawa–Gatineau, Toronto, Calgary, and Vancouver?
- What are the top ten municipalities where a language other than English or French is spoken most often at home?

¹ Please refer to the following link for an example of the FoGS:
<http://www12.Statistics-Canada.gc.ca/census-recensement/2011/as-sa/fogs-spg/Index-eng.cfm?Lang=Eng>

- How does the average age for my municipality compare to that of the province or that of Canada?
- Is there a relationship between level of education attainment and average income in any given municipality?

There will be approximately 50 Government of Canada (*GC USERS* (Subject Matter Experts (*SMEs*), designers and internal developers at Statistics Canada) that will create presentation layers, update *INDICATORS* and their characteristic information and create the business rules that control the behavior of *DASHBOARD* elements and the views presented as a result of *END-USERS* actions. The *GC USERS* will also continue to maintain and develop new *GC* extended *APIs* to be added to the *SOLUTION* over the course of the next 10 years as Statistics Canada will seek to innovate in order to maximize its opportunity in the future related to *DATA VISUALIZATION* and data analytics technology.

The *SOLUTION* must be scaled to support approximately 5000 *END-USERS* viewing the presentation layers at any one time. This new *SOLUTION* will be used for the first time to create presentation layer(s) that will disseminate *INDICATORS* from the 2016 Census of Population² and is a key component of the Census Program's dissemination strategy. The *SOLUTION* will initially be installed at the Census Enclave³. However, in the future, the *SOLUTION* will be migrated from the Census Enclave to the primary data centre for all of Statistics Canada's dissemination products (to be determined) where the underlying statistical data will also reside⁴. Additional presentation layers will also be designed to disseminate data from other Statistics Canada programs (e.g., the Labour Force Survey) using the same backend portion of the *SOLUTION*.

4 SCOPE

4.1 Scope of Work

Statistics Canada requires a *SOLUTION* for the requirements identified in this specification. The Contractor is responsible for delivering the *SOLUTION* and having the capacity to support it. The Contractor must deliver a *DATA VISUALIZATION SOLUTION*, comprising all mandatory Solution Based requirements as described in this *SRS*, as well as any point rated requirements included by the Contractor in their proposal, using technologies that are compatible with Statistics Canada existing *IT* infrastructure, software technology stacks, programming languages and data sources (as detailed in Sections 5.4.1.3, 5.4.1.4, 5.4.1.5 of this *SRS*).

The Contractor will also be required to:

- 1 Design and develop *DASHBOARD* presentation layer(s) for the 2016 Census implementation based on the requirements specified in Section 5.4.1.11 of this *SRS*.
- 2 Develop, deliver and implement an application Testing Strategy and Plan to be approved by the Technical Authority.
- 3 Develop, deliver and implement a program for development knowledge transfer to 3-4 Statistics Canada *IT* personnel for the purpose of performing internal support, software updates, and new development in the form of *GC* extended *APIs*.
- 4 Develop and deliver an installation and integration processes that can be easily followed by Statistics Canada and Shared Services Canada (*SSC*) staff. At a minimum, it must include, but is not limited to, configuration guides, installation guides, and administration and management guides, for deployment on *SSC* servers.
- 5 Develop, deliver and implement a bilingual user guide and web tutorial for *END-USERS* on the effective use of the *SOLUTION*.

² The Census of Population, mandated in the Constitution Act, underlies the delineation of federal electoral districts (and therefore representation in the House of Commons) and plays a critical role in the Constitutional amending formula. The Census of Population provides the Government of Canada with accurate population counts used to rebase the Population Estimates Program which in turn is used to determine transfer payments for Canada Health and Social Transfers, the Health Reform Transfer, Equalization and Territorial Formula Financing. The Program is designed to supply statistical information, analysis and services that measure changes in Canada's population, its demographic characteristics and its conditions.

³ The Census Enclave is a collection of census web, application and database servers that are used to deploy, operate, and maintain the Census systems. The solution will be installed on servers located in the Census Enclave. It is currently housed outside Statistics Canada at the *SSC* Enterprise Data Centre site in Gatineau. Please refer to Appendix A for more complete description of the Census Enclave and a network diagram.

⁴ Dissemination data for all of Statistics Canada will be stored in what is internally being called the Common Output Data Repository (*CODR*). This database will be hosted using Oracle Technologies.

- 6 Assign a dedicated project manager to manage the Work and liaise with the Technical Authority.

4.2 Project Tasks

The Contractor will perform the following activities:

1. Develop and deliver a detailed project plan two weeks after contract award, to be maintained throughout the Work, while keeping the Technical Authority informed of progress. The project plan must detail timelines, milestones, and requirements stipulated in this *SRS* document.
 2. Design all of the necessary *IT* model(s) (i.e. Data, Architectural, and Processing) to meet the requirements outlined in this *SRS*.
 3. Design, develop and test the *SOLUTION*.
 - a. Incorporate the knowledge transfer strategy into the development cycle.
 - b. Design the *SOLUTION* to meet all of the mandatory Solution Based requirements outlined throughout this *SRS*, including any point rated requirements that are part of a Contractor's bid proposal. The designed *SOLUTION* must also include the strategy and plan for providing presentation layer(s) and messages in both official languages.
 - c. Design and demonstrate the functionality of all presentation layer(s) developed using the *SOLUTION* for the 2016 Census implementation and obtain signoff from the Technical Authority.
 - d. Develop the full version of the *SOLUTION* according to the approved strategy.
 - e. Create, maintain and deliver technical documentation and executable versions as development of the *SOLUTION* progresses.
 - f. Utilize change request forms (provided by the Contractor) for all changes that deviate from the requirements identified in this *SRS*.
 - g. Develop, document and execute a Testing Strategy to test the *SOLUTION* to be approved and accepted by the Technical Authority. The document and testing must cover the following:
 - *Functionality Testing*: to test the functionality and user friendliness of the *SOLUTION*. It is performed to verify that the software performs and functions correctly according to the specified requirements and design specification.
 - *Integration Testing*: to test the interface between the *SOLUTION* software components. Individual software modules are combined and tested as a group.
 - *End-to-End Testing*: to testing the flow of the application to ensure it is performing as designed from start to finish, to identify system dependencies and to ensure that the right information is passed between various system components and systems.
- The testing package must include a suite of repeatable test cases to be used whenever a change or upgrade is made to the application code, maintenance database schema and/or layer/table record layouts.
- h. Provide advice and inputs, in the form of test cases, for the solution acceptance testing program. Solution acceptance testing will be performed by the Technical Authority.
 - i. Correct any issues identified by the Technical Authority in its solution acceptance testing before final delivery of the complete *SOLUTION*.
 - j. Complete steps for d, e, f, g, h and i for the French version.
5. Implement a knowledge transfer program. The program must be clear, complete in content, and address the sharing of information and cover the following areas:
 - a. Technical use of components and their features.
 - b. Relationships between components and performance metrics.
 - c. Design approach and best use of components and their features.
6. Package the *SOLUTION* for implementation within the Census Enclave Development environment. The actual implementation will be performed by Statistics Canada or SSC personnel.
 - a. Assist Statistics Canada and SSC with organizing the implementation.
 - b. Create an implementation procedure and/or checklist.
 - c. Provide guidance, advice and be available for the final implementation if required.
7. Package the *SOLUTION* for implementation within the Census Enclave production environment. The actual implementation will be performed by Statistics Canada or SSC personnel.
 - a. Assist Statistics Canada and SSC with organizing the implementation.
 - b. Create an implementation procedure and/or checklist.
 - c. Provide guidance, advice and be available for the final implementation if required.

8. Develop and deliver user guides and web tutorials for the *SOLUTION* for *END-USERS* incorporating descriptions/demonstrations on all functionality and features.
9. On an as and when need professional services basis, through task authorizations, perform updates or develop new functionality (*APIs*) not identified in this *SRS* to take advantage of new technologies or web architectures and on-site support above and beyond the standard maintenance support.

5 SOLUTION REQUIREMENTS

5.1 High Level Description of Requirements

Statistics Canada requires a *SOLUTION* for the requirements identified in this *SRS*. Detailed description of all requirements are contained in section 5.4. At a high level, the *SOLUTION* must deliver and support the following requirements:

1. The *SOLUTION* must meet Government of Canada (*GC*) web accessibility, web security and web template standards.
2. The *SOLUTION* must employ *RESPONSIVE DESIGN* techniques so that presentation layers are adjusted for optimized viewing on different *END-USER* platforms (desktop, tablet, mobile).
3. The *SOLUTION* must be available in both English and French, and must allow *END-USERS* to toggle/set the *SOLUTION* to the official language of their choice.
4. The *SOLUTION* must use technologies that work with Statistics Canada existing *IT* infrastructure, software technology stacks, development frameworks, programming languages and data sources (as detailed in Sections 5.4.1.3, 5.4.1.4, 5.4.1.5).
5. The *SOLUTION* must be able to be installed on SSC servers dedicated to Statistics Canada's. The first implementation of the *SOLUTION* will need to be installed at the Census Enclave in Gatineau, Quebec.
6. The *SOLUTION* must meet the performance targets described in this *SRS* (as detailed in Section 5.4.1.6 Solution Based Performance Requirements).
7. The *SOLUTION* must be scalable so that the number of concurrent *END-USER* can increase without a reduction in performance given additional infrastructure.
8. The *SOLUTION* must use Statistics Canada supplied data (spatial and non-spatial). The non-spatial data must be consumed directly from databases in use at Statistics Canada⁵. The *SOLUTION* must, at a minimum, use the content of the spatial data supplied by Statistics Canada. This includes the boundary files and basemap layers (i.e. road network and hydrography).
9. The *SOLUTION* must be able to render maps and charts from statistical data in database tables.
10. The *SOLUTION* must allow *GC USERS* to create presentation layers in the form of *DASHBOARDS* that have a variety of different graphic (e.g., maps, charts images) and non-graphic (e.g., text, tables) elements. The *SOLUTION* must allow *GC USERS* to easily adapt the layout of the presentation layers and add or remove *DASHBOARD* elements or create new presentation layers in the future to meet new requirements or design trends using the same backend portion of the *SOLUTION*.
11. Use the *SOLUTION* to design and develop the 2016 Census presentation layer(s). The presentation layer(s) of the 2016 Census implementation must look modern, be innovative in design, be easy to interpret by *END-USERS* and facilitate communication of statistical information. The number of *DASHBOARD* elements and how they are all laid out is open. A balance must be struck between ease of use and providing sufficient information. For example, a *DASHBOARD* with many different elements might provide a lot of information which may end up being too difficult to interpret. Conversely, a design with only a few elements might be easy to interpret, but it may not provide enough information to an *END-USER* to allow them to identify relationships or trends. Alternatively, a design could be proposed to only show some elements at one time, but allow *END-USERS* to easily switch between elements (for example switch between factoids and a top ten list if there is only one area for text).
 - a. The 2016 Census presentation layer(s) must include a map and it must be the main focus of the *DASHBOARD* presentation layer(s).
 - b. The 2016 Census presentation layer(s) must include at least one chart. The number of additional charts if any, to include in the 2016 Census presentation layer(s) design is open. Charts are to be used to display information related to the indicator being mapped. For example, if the indicator

⁵ For the 2016 Census implementation the databases will be updated at least 4 times.

being mapped is 'Persons aged 65 years and over' the possible charts could include: a bar chart showing the value for each CSD in Canada that has been ranked (ordered from low to high), a bar chart showing the distribution of people in all age group classes for a selected CSD or a doughnut chart of the percentage of people over 65 that are male or female (e.g., 54% of people aged 65 years and over in the selected area are female while 46% are male). The design of how this information is presented is open. For example, if there is only one area on the *DASHBOARD* for charts the *END-USER* could switch between different types of charts. Conversely there could be more than one chart visible at any given time.

- c. The 2016 Census presentation layer(s) must include at least one space in the *DASHBOARD* design for text. For the 2016 Census implementation the number of additional text spaces if any, to include in the design is open. Text that could be included in the *DASHBOARD* include things such as factoids, analytical text bullets, lists (e.g., top/bottom 10), links and footnotes. The design of how this information is presented is open. For example, if there is only one area on the *DASHBOARD* for this information the *END-USER* could switch between analytical bullets and a top 10 list. Conversely there could be separate areas for the items listed above.
12. To meet web accessibility requirements, tabular views of graphic elements must be available to the *END-USER*.
13. The *SOLUTION* must provide for the management and use of information related to the *INDICATORS*. This will include things like the availability of an *INDICATOR* at different *GEOGRAPHIC LEVELS*, the type of thematic map to display (if applicable), type of chart to use (if applicable), class intervals (if applicable), colour selections, titles, associated HTML links, associated images and/or graphics, and related *INDICATORS* that can be shown or selected by an *END-USER* in another *DASHBOARD* element (if applicable). Exactly how it is to be stored, managed and used by the *SOLUTION* is open. For example, a process could be designed to manage this information or the *SOLUTION* could implement a graphical user interface (*GUI*) for *GC USERS* to enter this information. For the purposes of this Work Statistics Canada will provide information for each *INDICATOR* for the 2016 Census implementation once the *DASHBOARD* design is finalized.
14. The presentation layers of the *SOLUTION* must be designed to allow *END-USERS* to choose from a list of *INDICATORS*⁶ that have been organized into themes⁷ and display the results in the *DASHBOARD* presentation layer(s). The themes will be provided by Statistics Canada.
15. Upon selecting an *INDICATOR* or *GEOGRAPHIC AREA*, *DASHBOARD* elements must be updated automatically. The information populated in the various elements will be dependent on a number of factors which include the primary *INDICATOR* selected, the *GEOGRAPHIC LEVEL*, and whether or not a *GEOGRAPHIC AREA* or multiple *GEOGRAPHIC AREAS* are selected. For example, if no *GEOGRAPHIC AREA* is selected the focus of the *DASHBOARD* elements is on the *INDICATOR* selected and the *SOLUTION* would display information for Canada, which is the default level, in the presentation layers. However, if one or more *GEOGRAPHIC AREAS* (e.g., the CSD of Ottawa) are selected the focus would be about *INDICATOR* information related to the selected area(s). The information to display and business rules associated *END-USER* interactions must be able to be specified by *GC USERS* in the form of decision trees. There will be a decision tree for each presentation layer as they are dependent on the final design of any presentation layers and the elements included in a *DASHBOARD*. See Appendix D for a possible example of the type of information that may be supplied for the 2016 Census implementation, however, the actual 2016 Census decision tree will only be finalized once a design has been selected.
16. The *DASHBOARD* elements on any presentation layers must be responsive to *END-USER* interactions with features in any chart, map or other *DASHBOARD* element. For example, if an *END-USER* selects a given bar on a chart showing the ranking of all CSDs in Canada for a given *INDICATOR*, the *GEOGRAPHIC AREA* related to the bar must be identified on the map. The information to display and business rules associated *END-USER* interactions must be able to be specified by *GC USERS* in the form of decision trees. There will be a decision tree for each presentation layer as they are dependent on the final design of any presentation layers and the elements included in a *DASHBOARD*.
17. *END-USERS* must be able to select the *GEOGRAPHIC LEVELS* (e.g., CSDs or Provinces) they want to display on maps included in a *DASHBOARD*.

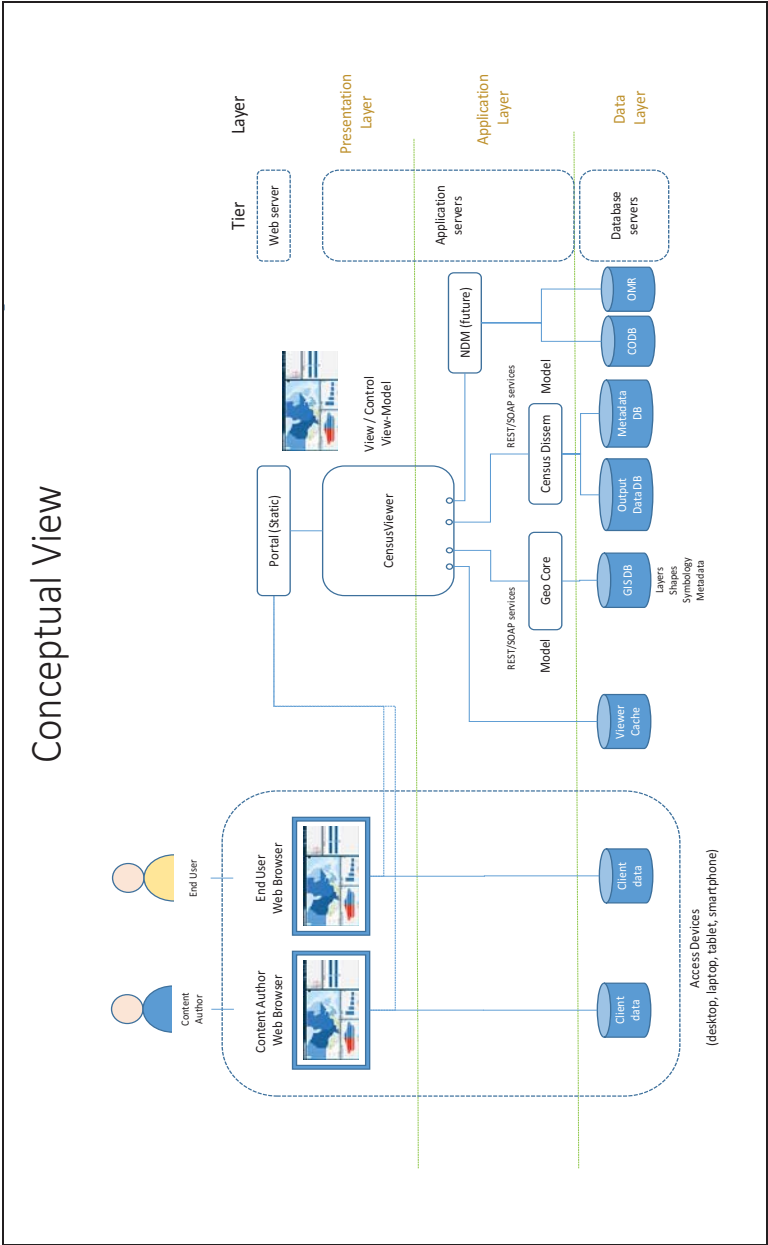
⁶ For the 2016 Census implementation of the *SOLUTION* approximately 400 *INDICATORS* will be available.

⁷ Approximately 25 for the 2016 Census implementation.

18. The *END-USER* must be able to search for specific *GEOGRAPHIC AREAS* (e.g., the CSD of Ottawa). Statistics Canada will provide a file that contains a list of *GEOGRAPHIC AREAS* that can be searched.
19. The *SOLUTION* must allow *GC USERS* to customize and change the map symbology that will be displayed on presentation layers.
20. Maps must include typical map elements such as a title, legend and North arrow.
21. Typical web map functions such as panning and zooming must be available to the *END-USER*.
22. The thematic mapping component of the *SOLUTION* must be able to present the statistical *INDICATORS* to *END-USERS* using different thematic mapping techniques. For example, a choropleth map (colours) or a map with graduated symbols. *GC USERS* must be able to define the type of thematic map technique to use with each *INDICATOR*. At most 2 *INDICATORS* using different thematic techniques could be shown on the map at the same time.
23. The most popular chart types must be able to be rendered in the *DASHBOARD*. The type of chart to use for each *INDICATOR* must be able to be predefined by *GC USERS*.
24. The *SOLUTION* must allow an *END-USER* to compare the information for a selected *GEOGRAPHIC AREA* (e.g., the CSD of Ottawa) with the same information for either another selected area (e.g., the CSD of Toronto) or a larger *GEOGRAPHY AREA* in which it is located (e.g., province and/or Canada).
25. When an *END-USER* positions the mouse over the map or a chart, information must be displayed to the *END-USER* in a pop-up window. *GC USERS* must be able to define the information to be displayed for each presentation layer.
26. *END-USERS* must have the ability to change what is displayed in the chart(s) and text list(s) (e.g., top 10 or bottom 10 for Canada or province) by selecting from predefined lists defined by *GC USERS*.
27. The *SOLUTION* must be able to display HTML links to other data tables for the *INDICATOR* selected, or the *GEOGRAPHIC AREAS* selected on the interactive map. The HTML link will ensure *END-USERS* can do a 'cross-walk navigation' from *INDICATORS* to detailed data tables. *GC USERS* must be able to define the information to be displayed for each presentation layer.
28. The *SOLUTION* must allow *END-USERS* to export (to directories and to social media) and print the entire *DASHBOARD* or the various *DASHBOARD* elements individually.
29. The *SOLUTION* must be open-ended in order to allow *GC USERS* to independently implement additional features attached to the *SOLUTION* (*GC extended APIs*) through a software development kit (*SDK*) and allow for the development of new presentation layer(s).
30. The *SOLUTION* works, is complete and compliant to the contents of this *SRS*, will have to be delivered and fully implemented within the Statistics Canada production environment by July 3, 2017 at the latest. This includes having obtained the Authority to Operate from SSC which can only be requested once all development of the *SOLUTION* is completed.

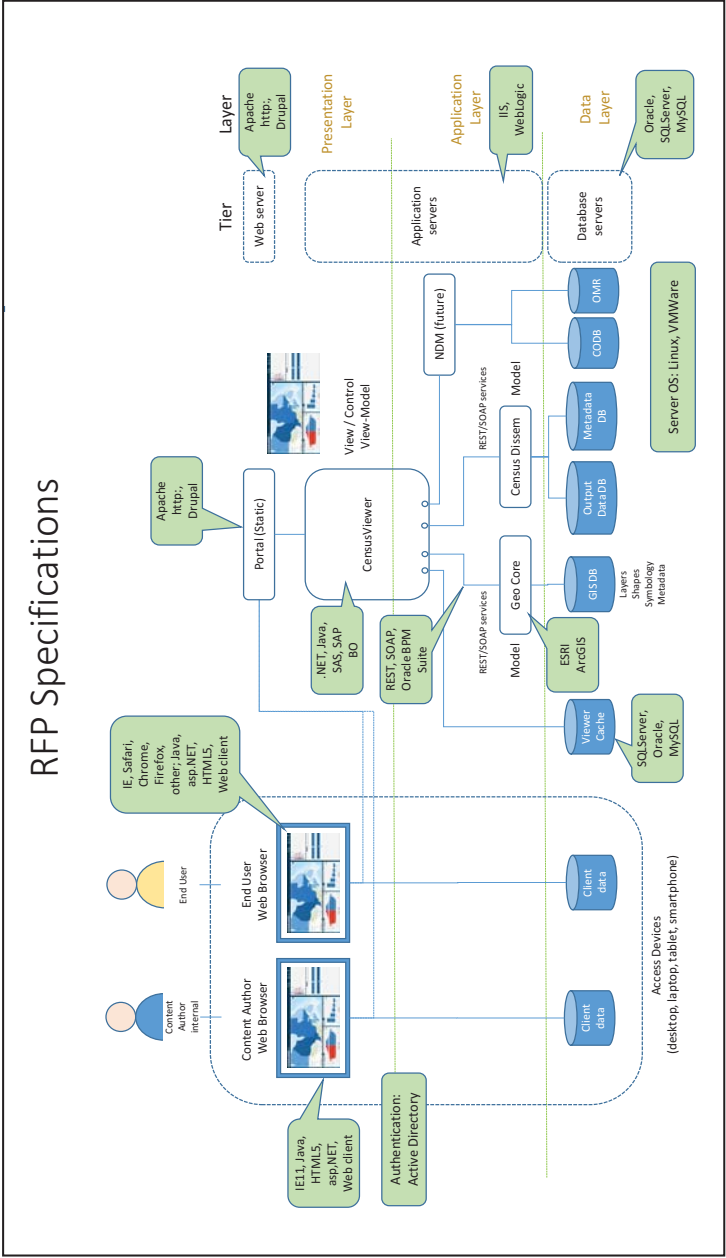
5.2 Conceptual View of Required SOLUTION

The diagram below illustrates a conceptual view of how Statistics Canada perceives the SOLUTION to be modelled. The contractor may propose a SOLUTION that is different than what is presented below, provided the specification standards and existing IT infrastructure are not changed.



5.3 Conceptual View with SRS

The diagram below provides a visual representation of the conceptual view mentioned above, highlighting the associated mainstream specification standards requested by Statistics Canada. Please note this is a conceptual view and the contractor may propose a *SOLUTION* that is different than what is presented below, provided the specification standards and existing *IT* infrastructure are not changed.



5.4 Detailed Requirements

5.4.1 Mandatory Solution Based Requirements

The following set of mandatory requirements must be part of the *SOLUTION*. The Contractor must deliver and enable the requirements as part of the complete *SOLUTION* available for solution acceptance testing prior to final delivery as per the schedule proposed by the Contractor.

5.4.1.1 Solution Based Standards Requirements

ID	Solution Based Standards Requirements
SB-1	<p><u>Web Standards for the Government of Canada Requirements</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to conform to the web standards and guidelines set by the Government of Canada.</p> <p>More details and technical specifications on these standards and guidance can be found on the Treasury Board of Canada Secretariat website at:</p> <p>https://www.tbs-sct.gc.ca/hgw-cgff/oversight-surveillance/communications/index-eng.asp</p> <p>The Technical Authority will assess compliance as part of solution acceptance testing by comparing the <i>SOLUTION</i> to the web standards and guidelines set by the Government of Canada.</p> <p>If the solution acceptance testing results in a successful demonstration of compliance with the web standards and guidelines set by the Government of Canada then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate compliance with the web standards and guidelines set by the Government of Canada then assign "does not meet".</p>
SB-2	<p><u>Accessibility (WCAG 2.0) Requirements</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to conform to the Accessibility (WCAG 2.0 AA level Compliance) requirements in order to make presentation layer content accessible to a wider range of people with disabilities, including blindness and low vision, deafness and hearing loss, learning disabilities, cognitive limitations, limited movement, speech disabilities, photosensitivity and combinations of these.</p> <p>For Level AA conformance, the Web page must satisfy 'all' the Level A and Level AA 61 Success Criteria.</p> <p>The Technical Authority will assess compliance as part of solution acceptance testing by comparing the <i>SOLUTION</i> to the web accessibility standard using the following methodology as part of solution acceptance testing:</p> <p>http://wet-boew.github.io/v4.0-ci/demos/wamethod/wamethod-AA-en.html</p> <p>If the solution acceptance testing results in a successful demonstration of compliance with 'all' the Level A and Level AA 61 Success Criteria then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate 100% compliance with 'all' the Level A and Level AA 61 Success Criteria then assign "does not meet".</p>

ID	Solution Based Standards Requirements
SB-3	<p><u>Standard on Web Accessibility Requirements</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to adhere to the Government of Canada Standard on Web Accessibility:</p> <p>http://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=23601</p> <p>This includes but is not limited to the following:</p> <ul style="list-style-type: none">a. support keyboard interface navigationANDb. support screen readers <p>The Technical Authority will assess compliance as part of solution acceptance testing by comparing the <i>SOLUTION</i> to the Web Accessibility standard set by the Government of Canada.</p> <p>If the solution acceptance testing results in a successful demonstration of compliance with the Web Accessibility standard set by the Government of Canada then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate compliance with the Web Accessibility standard set by the Government of Canada then assign "does not meet".</p>
SB-4	<p><u>Theme and Style Requirements</u></p> <p>The <i>SOLUTION</i> must be able to create presentation layers that adhere to the customizable Canada.ca theme template in order to implement the layout and design requirements for Statistics Canada:</p> <p>http://wet-boew.github.io/v4.0-ci/docs/ref/themesstyle-en.html</p> <p>The Technical Authority will assess compliance as part of solution acceptance testing by comparing the presentation layers created by the <i>SOLUTION</i> with the customizable Canada.ca theme template.</p> <p>If the solution acceptance testing results in a successful demonstration of compliance with the Web Accessibility standard set by the Government of Canada then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate compliance with the Web Accessibility standard set by the Government of Canada then assign "does not meet".</p>
SB-5	<p><u>Standard on Web Interoperability Requirements</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to adhere to the Government of Canada Standard on Web Interoperability:</p> <p>http://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=25875</p> <p>The Technical Authority will assess compliance as part of solution acceptance testing by comparing the <i>SOLUTION</i> to the Web Interoperability standard set by the Government of Canada.</p> <p>If the solution acceptance testing results in a successful demonstration of compliance with the Web Interoperability standard set by the Government of Canada then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate compliance with the Web Interoperability standard set by the Government of Canada then assign "does not meet".</p>

ID	Solution Based Standards Requirements
SB-6	<p><u>Standard on Optimizing Websites and Applications for Mobile Devices Requirements</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to adhere to the Government of Canada Standard and the technical specifications on Optimizing Websites and Applications for Mobile Devices:</p> <p>https://www.tbs-sct.gc.ca/hqw-cqf/oversight-surveillance/communications/ws-nw/tsw-stw-eng.asp</p> <p>http://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=27088</p> <p>The Technical Authority will assess compliance as part of solution acceptance testing by comparing the <i>SOLUTION</i> to the Standard and the technical specifications on Optimizing Websites and Applications for Mobile Devices set by the Government of Canada.</p> <p>If the solution acceptance testing results in a successful demonstration of compliance with the Standard and the technical specifications on Optimizing Websites and Applications for Mobile Devices set by the Government of Canada then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate compliance with the Standard and the technical specifications on Optimizing Websites and Applications for Mobile Devices set by the Government of Canada then assign "does not meet".</p>
SB-7	<p><u>Web Browser Requirements</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to be compliant with modern operating systems and browsers. This includes but is not limited to as per detailed guidance found on the Treasury Board of Canada Secretariat website at:</p> <p>http://www.tbs-sct.gc.ca/ws-nw/wa-aw/wa-aw-guid-eng.asp</p> <ol style="list-style-type: none">Internet Explorer 9 and its newer version without modificationGoogle chrome and its newer version without modificationSafari and its newer version without modificationFireFox and its newer version without modification <p>The Technical Authority will assess compliance as part of solution acceptance testing by comparing the <i>SOLUTION</i> to the the guidance found on the Treasury Board of Canada Secretariat website and viewing presentation layers created by the solution on the browsers listed in a, b, c, and d above.</p> <p>If the solution acceptance testing results in a successful demonstration of compliance with the guidance found on the Treasury Board of Canada Secretariat website and viewing presentation layers created by the <i>SOLUTION</i> on the browsers listed in a, b, c, and d above then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate compliance with the guidance found on the Treasury Board of Canada Secretariat website and viewing presentation layers created by the <i>SOLUTION</i> on the browsers listed in a, b, c, and d above then assign "does not meet".</p>
SB-8	<p><u>Standard on Web Usability Requirements</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to adhere to the Government of Canada Standard on Web Usability found on the Treasury Board of Canada Secretariat website at:</p> <p>http://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=24227</p> <p>The Technical Authority will assess compliance as part of solution acceptance testing by comparing the <i>SOLUTION</i> to the Standard on Web Usability set by the Government of Canada.</p> <p>If the solution acceptance testing results in a successful demonstration of compliance with the Standard on Web Usability set by the Government of Canada then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate compliance with the Standard on Web Usability set by the Government of Canada then assign "does not meet".</p>

ID	Solution Based Standards Requirements
SB-9	<p><u>Official Languages Act Requirements</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to comply with relevant policies of the Government of Canada Official Languages Act and the Directive on Official Languages for Communications and Services.</p> <p>The <i>SOLUTION</i> must allow all <i>END-USERS</i> to work in both of Canada's official languages (English and French), and must allow the <i>END-USERS</i> to toggle/set the presentation layer(s) of the <i>SOLUTION</i> to the official language of his/her choice.</p> <p>Refer to the following websites for a description of the Directive on Official Languages for Communications and Services:</p> <ul style="list-style-type: none">a. http://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=26164b. http://www.tbs-sct.gc.ca/pol/doc-fra.aspx?id=26164 <p>The Technical Authority will assess compliance as part of solution acceptance testing by having <i>END-USERS</i> toggle/set the presentation layer(s) of the <i>SOLUTION</i> between the 2 official languages.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability to toggle/set the presentation layer(s) of the <i>SOLUTION</i> between the 2 official languages then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability to toggle/set the presentation layer(s) of the <i>SOLUTION</i> between the 2 official languages then assign "does not meet".</p>
SB-10	<p><u>Currency Notation Functionality Requirements</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to manage standard currency notation as defined by ISO 4217 standard currency names and code elements.</p> <p>The standard specifies the structure for a three-letter alphabetic code and an equivalent three-digit numeric code for representation of currencies and funds</p> <p>\$#,###.## , where # is a numeric value from 0 to 9.</p> <p>This requirement also needs to address formatting of currency based on language as specified in ISO 4217.</p> <p>Currency format example.</p> <ul style="list-style-type: none">a. English: \$#,###.## \$123,456,789.00b. French: # ###,## \$ 123 456 789,00 \$ <p>The Technical Authority will assess compliance as part of solution acceptance testing by validating that the <i>SOLUTION</i> can manage standard currency notation as defined by ISO 4217.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to manage standard currency notation as defined by ISO 4217 then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to manage standard currency notation as defined by ISO 4217 then assign "does not meet".</p>

ID	Solution Based Standards Requirements
SB-11	<p><u>Date or Reference Notation Functionality Requirements</u></p> <p>The <i>SOLUTION</i> must be able to use international standard date and time notation as defined by the ISO 8601:2004 standard date and time notation.</p> <p>The international standard notation for date, is a numeric representations of date as YYYY-MM-DD, where YYYY is the year in the usual Gregorian calendar, MM is the month of the year between 01 (January) and 12 (December), and DD is the day of the month between 01 and 31.</p> <p>For example, the fourth day of February in the year 1995 is written in the standard notation as 1995-02-04.</p> <p>The international standard notation for the time of day is HH:MM:SS, where HH is the number of complete hours that have passed since midnight (00-23), MM is the number of complete minutes that have passed since the start of the hour (00-59), and SS is the number of complete seconds since the start of the minute (00-59).</p> <p>For example time 23:59:59 represents the time one second before midnight.</p> <p>The Technical Authority will assess compliance as part of solution acceptance testing by validating that the <i>SOLUTION</i> can use international standard date and time notation as defined by the ISO 8601:2004.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to use international standard date and time notation as defined by the ISO 8601:2004 then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to use international standard date and time notation as defined by the ISO 8601:2004 then assign "does not meet".</p>

5.4.1.2 Solution Based Security Requirements

ID	Solution Based Security Requirements
SB-12	<p><u>Security Authentication Requirement</u></p> <p>The Contractor must deliver a Solution that is compliant with and supports the authentication and authorization Lightweight Directory Access protocol (LDAP) 3.0 (http://tools.ietf.org/html/rfc4510).</p> <p>The Technical Authority will assess compliance as part of solution acceptance testing by ensuring the <i>SOLUTION</i> supports the authentication and authorization Lightweight Directory Access protocol (LDAP) 3.0.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to support the authentication and authorization Lightweight Directory Access protocol (LDAP) 3.0 then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to support the authentication and authorization Lightweight Directory Access protocol (LDAP) 3.0 then assign "does not meet".</p>
SB-13	<p><u>Information Technology Security Guidance Requirements</u></p> <p>The <i>SOLUTION</i> must allow Statistics Canada to comply with all of the Information Technology Security Guidance Publication 33 (ITSG33) technical security controls listed in Appendix C.</p> <p>The Technical Authority will assess compliance as part of solution acceptance testing by ensuring the <i>SOLUTION</i> does not prevent Statistics Canada from complying with all of the Information Technology Security Guidance Publication 33 (ITSG33) technical security controls listed in Appendix C.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i> not preventing Statistics Canada from complying with all of the Information Technology Security Guidance Publication 33 (ITSG33) technical security controls listed in Appendix C then assign "meets".</p> <p>If the solution acceptance testing results demonstrate that the <i>SOLUTION</i> would prevent Statistics Canada from complying with all of the Information Technology Security Guidance Publication 33 (ITSG33) technical security controls listed in Appendix C then assign "does not meet".</p>

ID	Solution Based Security Requirements
SB-14	<p><u>Web Services Interoperability Security Requirements</u></p> <p>The <i>SOLUTION</i> must implement, deliver, enable, support and conform to at least 1 of the following WS-I Basic Security Profile (WS-I BSP) versions listed below:</p> <ul style="list-style-type: none"> a. Web Services Interoperability Basic Profile (WS-I BP) 2.0 (http://ws-i.org/Profiles/BasicProfile-2.0-2010-11-09.html) OR b. Version 1.1 (WS-I BSP 1.1) (http://www.ws-i.org/Profiles/BasicSecurityProfile-1.1.html) <p>The Technical Authority will assess compliance as part of solution acceptance testing by ensuring the <i>SOLUTION</i> can implement, deliver, enable, support and conform to at least 1 of the WS-I Basic Security Profile (WS-I BSP) versions listed in a. or b. above.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to implement, deliver, enable, support and conform with at least 1 of the WS-I Basic Security Profile (WS-I BSP) versions listed in a. or b. above then assign "meets".</p> <p>If the solution acceptance testing results do not demonstrate the ability of the <i>SOLUTION</i> to implement, deliver, enable, support and conform with at least 1 of the WS-I Basic Security Profile (WS-I BSP) versions listed in a. or b. above then assign "does not meet".</p>
SB-15	<p><u>Inactivity Security Requirement</u></p> <p>The <i>SOLUTION</i> must automatically terminate an <i>END-USER'S</i> session and provide the <i>END-USER</i> with a message that their session has expired after a configurable period of inactivity.</p> <p>'Configurable' in this context refer to the ability to be able to set a preferred duration specific at design time by a system administrator (<i>GC USER</i>).</p> <p>The Technical Authority will assess compliance as part of solution acceptance testing by ensuring the <i>SOLUTION</i> automatically terminates an <i>END-USER'S</i> session and provides the <i>END-USER</i> with a message that their session has expired after a configured period of inactivity.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to automatically terminate an <i>END-USER'S</i> session and provide the <i>END-USER</i> with a message that their session has expired after a configured period of inactivity then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to automatically terminate an <i>END-USER'S</i> session and provide the <i>END-USER</i> with a message that their session has expired after a configured period of inactivity then assign "does not meet".</p>
SB-16	<p><u>Security Authentication Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to the system's administrator to grant permissions to specific <i>GC USERS</i> (i.e. designers) to be able to make updates to any design element and/or <i>INDICATOR</i> data.</p> <p>The Technical Authority will assess compliance as part of solution acceptance testing by ensuring the <i>SOLUTION</i> allows the system's administrator to grant permissions to specific <i>GC USERS</i> (i.e. designers) to be able to make updates to any design element and/or <i>INDICATOR</i> data.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to allow the system's administrator to grant permissions to specific <i>GC USERS</i> (i.e. designers) to be able to make updates to any design element and/or <i>INDICATOR</i> data then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to allow the system's administrator to grant permissions to specific <i>GC USERS</i> (i.e. designers) to be able to make updates to any design element and/or <i>INDICATOR</i> data then assign "does not meet".</p>

5.4.1.3 Information Technology Requirements

ID	Information Technology Requirements
SB-17	<p><u>Installation and Configuration Requirement</u></p> <p>The <i>SOLUTION</i> must install, deploy, work and operate in a virtual server hosting environment based on VMWare V6.0 u2 and above.</p> <p>The Technical Authority will assess compliance as part of solution acceptance testing by ensuring the <i>SOLUTION</i> installs, deploys, works and operates in a virtual server hosting environment based on VMWare V6.0 u2.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to install, deploy, work and operate in a virtual server hosting environment based on VMWare V6.0 u2 then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to install, deploy, work and operate in a virtual server hosting environment based on VMWare V6.0 u2 then assign "does not meet".</p>
SB-18	<p><u>Server OS Configuration Requirement</u></p> <p>The server portion of the <i>SOLUTION</i> must install, work and interoperate with at least 1 of the following server Operating Systems:</p> <ul style="list-style-type: none">a. Microsoft Windows Server V2012 and aboveAND/ORb. Red Hat Linux RHEL6.8 and above <p>The Technical Authority will assess compliance as part of solution acceptance testing by ensuring the <i>SOLUTION</i> installs, works and interoperates with at least 1 of the servers listed in a. or b. above.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to install, work and interoperate with at least 1 of the servers listed in a. or b. above then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to install, work and interoperate with at least 1 of the servers listed in a. or b. above then assign "does not meet".</p>
SB-19	<p><u>GC User Desktop Configuration Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>GC USERS</i> to maintain and further develop the <i>SOLUTION</i> on devices running a Microsoft Windows 7 desktop operating system.</p> <p>The Technical Authority will assess compliance as part of solution acceptance testing by ensuring the <i>SOLUTION</i> allows <i>GC USERS</i> to maintain and further develop the <i>SOLUTION</i> on devices running a Microsoft Windows 7 desktop operating system.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to allow <i>GC USERS</i> to maintain and further develop the <i>SOLUTION</i> on devices running a Microsoft Windows 7 desktop operating system then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to allow <i>GC USERS</i> to maintain and further develop the <i>SOLUTION</i> on devices running a Microsoft Windows 7 desktop operating system then assign "does not meet".</p>

ID	Information Technology Requirements
SB-20	<p><u>Web Server Compatibility and Configuration Requirement</u></p> <p>The <i>SOLUTION</i> must work with at least 1 of the following web server platforms:</p> <ul style="list-style-type: none">a. Apache Tomcat HTTP Server V2.6 and aboveORb. Microsoft IIS V7.5 and above <p>The Technical Authority will assess compliance as part of solution acceptance testing by ensuring the <i>SOLUTION</i> works with at least 1 of the web server platforms listed in a. or b. above.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to work with at least 1 of the web server platforms listed in a. or b. above then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to work with at least 1 of the web server platforms listed in a. or b. above then assign "does not meet".</p>
SB-21	<p><u>Application Server Compatibility and Configuration Requirement</u></p> <p>The <i>SOLUTION</i> must work with at least 1 of the following application server platforms:</p> <ul style="list-style-type: none">a. Apache Tomcat HTTP Server V2.6 and aboveORb. Apache HTTP server version 2.4ORc. Oracle WebLogic V11g and aboveORd. Microsoft IIS V7.5 and above <p>The Technical Authority will assess compliance as part of solution acceptance testing by ensuring the <i>SOLUTION</i> works with at least 1 of the application server platforms listed in a., b., c., or d. above.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to work with at least 1 of the application server platforms listed in a., b., c., or d. above then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to work with at least 1 of the application server platforms listed in a., b., c., or d. above then assign "does not meet".</p>

ID	Information Technology Requirements
SB-22	<p><u>Development Framework</u></p> <p>The <i>SOLUTION</i> must work with at least 1 of the following programming languages and integrated development environments (IDE's):</p> <ul style="list-style-type: none">a. Microsoft Visual Studio 2013, .NET version 4.5, asp.net ORb. Java version 1.8 (JRE 1.8, JDK1.8), Eclipse, IntelliJ, J-developer, jsp, struts, spring ORc. Python ORd. SAS <p>The Technical Authority will assess compliance as part of solution acceptance testing by ensuring the <i>SOLUTION</i> works with at least 1 of the programming languages and integrated development environments listed in a., b., c., or d. above.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to work with at least 1 of the programming languages and integrated development environments listed in a., b., c., or d. above then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to work with at least 1 of the programming languages and integrated development environments listed in a., b., c., or d. above then assign "does not meet".</p>
SB-23	<p><u>Presentation Layer requirement</u></p> <p>The <i>SOLUTION</i> must support:</p> <ul style="list-style-type: none">a. JavaScript ANDb. HTML5 <p>The Technical Authority will assess compliance as part of solution acceptance testing by ensuring the <i>SOLUTION</i> supports both JavaScript and HTML5.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to support both JavaScript and HTML5 then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to support both JavaScript and HTML5 then assign "does not meet".</p>

5.4.1.4 Solution Architecture Requirements

ID	Solution Architecture Requirements
SB-24	<p><u>Zero-Install End-User Configuration Requirement</u></p> <p>The <i>SOLUTION</i> must not require the installation of any software or plug-in on the <i>END-USERS</i> computer or mobile device for presentation layers to function.</p> <p>AND</p> <p>The <i>SOLUTION</i> must not require the storage of data files on the <i>END-USERS</i> computer or mobile device for presentation layers to function.</p> <p>The Technical Authority will assess compliance as part of solution acceptance testing by ensuring the <i>SOLUTION</i> does not require the installation of any software or plug-in on the <i>END-USERS</i> computer or mobile and does not require the storage of data files on the <i>END-USERS</i> computer or mobile device for presentation layers to function.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i>'s <i>presentation layers</i> to function without the installation of any software or plug-in on the <i>END-USERS</i> computer or mobile device and does not require the storage of data files on the <i>END-USERS</i> computer or mobile device then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i>'s <i>presentation layers</i> to function without the installation of any software or plug-in on the <i>END-USERS</i> computer or mobile device and does not require the storage of data files on the <i>END-USERS</i> computer or mobile device then assign "does not meet".</p>
SB-25	<p><u><i>SOLUTION</i> Architecture Requirement</u></p> <p>The <i>SOLUTION</i> must support a Service-Oriented Architecture (SOA) model, where application components provide services to other components via a communication protocol.</p> <p>The <i>SOLUTION</i> must be able to use and display <i>INDICATORS</i>, geographic data and related text stored on the server side.</p> <p>AND</p> <p>The presentation layer(s) of the <i>SOLUTION</i> must consume (pull) <i>INDICATOR</i>, geographic data (spatial data) and related text through web services for display in the <i>DASHBOARD</i>.</p> <p>The Technical Authority will assess compliance with a Service-Oriented Architecture (SOA) model as part of solution acceptance testing by ensuring the <i>SOLUTION</i> can use and display <i>INDICATORS</i>, geographic data and related text stored on the server side and can consume (pull) <i>INDICATOR</i>, geographic data (spatial data) and related text through web services for display in the <i>DASHBOARD</i>.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to use and display <i>INDICATORS</i>, geographic data and related text stored on the server side and consume <i>INDICATOR</i>, geographic data and related text through web services for display in the <i>DASHBOARD</i> then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to use and display <i>INDICATORS</i>, geographic data and related text stored on the server side and consume <i>INDICATOR</i>, geographic data and related text through web services for display in the <i>DASHBOARD</i> then assign "does not meet".</p>

ID	Solution Architecture Requirements
SB-26	<p><u><i>SOLUTION</i> Architecture Requirement</u></p> <p>The <i>SOLUTION</i> must separate the business logic from the User Interface.</p> <p>The Technical Authority will determine if the <i>SOLUTION</i> separates the business logic from the User Interface as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the separation of the business logic from the User Interface then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the separation of the business logic from the User Interface then assign "does not meet".</p>
SB-27	<p><u><i>SOLUTION</i> Architecture Scalability Requirement</u></p> <p>The <i>SOLUTION</i> must be built on a software architecture that is scalable when its <i>END-USER</i> base increases in population size while maintaining the same level of performance given additional CPU cores.</p> <p>For example, how would the <i>SOLUTION</i> maintain the same level of performance (see section 5.4.1.6 of the SRS) if the number of concurrent <i>END-USERS</i> was doubled (i.e. 10,000 <i>END-USERS</i>).</p> <p>The Contractor must demonstrate this by referencing software architecture diagrams and documentation and explaining how the <i>SOLUTION</i> can be scaled to accommodate increases in the <i>END-USER</i> base.</p> <p>If the Contractor' software architecture diagrams and documentation is able to successfully demonstrate the scalability of the <i>SOLUTION</i> to the Technical Authority assign "meets".</p> <p>If the Contractor' software architecture diagrams and documentation does not successfully demonstrate the scalability of the <i>SOLUTION</i> to the Technical Authority assign "does not meet".</p>
SB-28	<p><u><i>SOLUTION</i> Web Services Requirement</u></p> <p>The <i>SOLUTION</i> must support at minimum 1 of the following:</p> <ul style="list-style-type: none">a. Representational State Transfer (<i>REST</i>) – Restful web services (http://www.w3.org/2001/sw/wiki/REST)ORb. Simple Object Access Protocol (<i>SOAP</i>) (http://www.w3.org/TR/soap/) <p>The Technical Authority will assess compliance as part of solution acceptance testing by ensuring the <i>SOLUTION</i> supports at least 1 of the web services listed in a. or b. above.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to support 1 of the web services listed in a. or b. above then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to support 1 of the web services listed in a. or b. above then assign "does not meet".</p>

5.4.1.5 Solution Based Platform Environments Requirements

ID	Solution Based Platform Environments Requirements
SB-29	<p><u>Site Installation and Configuration Requirement</u></p> <p>The <i>SOLUTION</i> must be able to be installed, configured and supported on SSC servers. The servers will be 16 or 32 core hosts running VMWare 6.0 u2 or later. Only virtual servers will be deployed. The servers will have 128 or 256 GB RAM.</p> <p>Installation will need to be coordinated with SSC and will be at one of SSC's Enterprise Data Centre.</p> <p>The Technical Authority will assess compliance as part of solution acceptance testing by ensuring the <i>SOLUTION</i> can be installed configured and supported on an SSC server.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to be installed configured and supported on an SSC server then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to be installed configured and supported on an SSC server then assign "does not meet".</p>

5.4.1.6 Solution Based Performance Requirements

ID	Solution Based Performance Requirements
SB-30	<p><u>Concurrent END-USER Capacity Requirement</u></p> <p>The <i>SOLUTION</i> must be able to support 5,000 concurrent <i>END-USER</i> connections and meet the required performance metrics, where each connection is processing an end-user request.</p> <p>Canada will provide the servers in the Census Enclave. The servers will have 16 or 32 core hosts running VMWare 6.0 u2 or later. Only virtual servers may be deployed. Note, some of the RAM and CPU capacity is consumed by VMWare (approx. 10% however the more VMs on a host, the more VMWare will consume to manage them). The servers have 128 or 256 GB RAM.</p> <p>Load balancing of servers using a load balancer such as Big IP F5 is an option.</p> <p>Redundancy of the back-end data stores are handled as follows:</p> <ol style="list-style-type: none">Fully redundant Oracle RAC with 2 nodes for the Oracle DatabaseTwo (2) load balanced nodes for Sybase <p>Use of an active-passive pair with log shipping for SQL Server. Load Balancing of 2 SQL Server setups is also possible if required.</p> <p>The Technical Authority will assess compliance as part of solution acceptance testing by conducting volume tests simulating 5,000 concurrent <i>END-USERS</i>.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to support 5,000 concurrent <i>END-USER</i> connections and meet the required performance metrics (SB-31) then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to support 5,000 concurrent <i>END-USER</i> connections and meet the required performance metrics (SB-31) then assign "does not meet".</p>

ID	Solution Based Performance Requirements
SB-31	<p><u>Performance Response Requirement</u></p> <p>The <i>SOLUTION</i> must be able to provide the following performance response:</p> <ol style="list-style-type: none">less than 1 second page response time during normal operation2 second page response time during peak demand <p>Peak demand is considered to be, when 5,000 concurrent <i>END-USERS</i> are on the system. In this scenario, the 2 second response, does not mean the response is completed, just that the <i>END-USER</i> 'sees' a response is on its way. The <i>SOLUTION</i> must display some form of feedback to the <i>END-USER</i> showing that something is processing or being refreshed. The response must be within a maximum of 7 seconds.</p> <p>Canada will provide the servers in the Census Enclave. The servers will have 16 or 32 core hosts running VMWare 6.0 u2 or later. Only virtual servers may be deployed. Note, some of the RAM and CPU capacity is consumed by VMWare (approx. 10% however the more VMs on a host, the more VMWare will consume to manage them). The servers have 128 or 256 GB RAM.</p> <p>Load balancing of servers using a load balancer such as Big IP F5 is an option.</p> <p>Redundancy of the back-end data stores are handled as follows:</p> <ol style="list-style-type: none">Fully redundant Oracle RAC with 2 nodes for the Oracle DatabaseTwo (2) load balanced nodes for Sybase <p>Use of an active-passive pair with log shipping for SQL Server. Load Balancing of 2 SQL Server setups is also possible if required.</p> <p>An existing spatial tiling services from Statistics Canada is available and can be used to improve performance. The service is an ESRI Tiling service with the following specifications:</p> <ol style="list-style-type: none">Spatial Reference: 3347Single Fused Map Cache: trueHeight: 256Width: 256DPI: 96Format: PNG24 <p>The Technical Authority will assess compliance as part of solution acceptance testing by monitoring response time while conducting volume tests simulating normal operations and peak demand (i.e. 5,000 concurrent <i>END-USERS</i>).</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to meet the required response times in a. and b. above under normal and peak operations respectively, then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to meet the required response times in a. and b. above under normal and peak operations respectively, then assign "does not meet".</p>

ID	Solution Based Performance Requirements
SB-32	<p><u>High Availability Requirement</u></p> <p>The <i>SOLUTION</i> must be compatible and capable to operate in a high availability environment where failover mechanisms are deployed.</p> <p>AND</p> <p>The <i>SOLUTION</i> must detect failures and recover.</p> <p>AND</p> <p>The <i>SOLUTION</i> must recover with minimum interruptions.</p> <p>Load balancing of servers using a load balancer such as Big IP F5 is an option.</p> <p>Redundancy of the back-end data stores are handled as follows:</p> <ol style="list-style-type: none">Fully redundant Oracle RAC with 2 nodes for the Oracle DatabaseTwo (2) load balanced nodes for Sybase <p>Use of an active-passive pair with log shipping for SQL Server. Load Balancing of 2 SQL Server setups is also possible if required.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to operate in a high availability environment as part of solution acceptance testing by simulating a failure.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to detect and recover from a failure with minimum interruptions then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to detect and recover from a failure with minimum interruptions then assign "does not meet".</p>

5.4.1.7 Solution Based Monitoring Requirements

ID	Solution Based Requirements Related to Monitoring
SB-33	<p><u>Activity Logging Functionality Requirement</u></p> <p>The Contractor must include monitoring functionality in the <i>SOLUTION</i> allowing for the production of a detailed activity log including, but not limited to, System event and application usage logging.</p> <p>The log must be provided in one of the following formats:</p> <ol style="list-style-type: none">MS Word ORMS EXCEL ORPDF <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to provide a detailed activity log in one of the formats listed in a., b., or c. as part of solution acceptance testing by simulating a failure.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to provide a detailed activity log in one of the formats listed in a., b., or c. then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to provide a detailed activity log in one of the formats listed in a., b., or c. then assign "does not meet".</p>

ID	Solution Based Requirements Related to Monitoring
SB-34	<p><u>Error Monitoring Functionality Requirement</u></p> <p>The Contractor must include monitoring functionality in the <i>SOLUTION</i> to identify, log, manage and monitor errors.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to identify, log, manage and monitor errors as part of solution acceptance testing by simulating a failure.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to identify, log, manage and monitor errors then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to identify, log, manage and monitor errors then assign "does not meet".</p>

5.4.1.8 Solution Based Data Requirements

ID	Solution Based Data Requirements
SB-35	<p><u>Data Store Connectivity Functionality Requirement</u></p> <p>The <i>SOLUTION</i> must be able to consume (pull) data from 1 of the following databases:</p> <ul style="list-style-type: none">a. Oracle12c and aboveORb. Microsoft SQL Server V2012 and above <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to to consume (pull) data from 1 of the databases listed in a. or b. as part of solution acceptance testing by simulating a failure.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to consume (pull) data from 1 of the databases listed in a. or b. then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to consume (pull) data from 1 of the databases listed in a. or b. then assign "does not meet".</p>
SB-36	<p><u>SQL Functionality Requirement</u></p> <p>The <i>SOLUTION</i> must support the functionality to be able to design and program the <i>SOLUTION</i> such that it is compliant with ANSI SQL-92 or higher when used to access SQL-like databanks such as Microsoft SQL Server and Oracle.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to be able to be designed and programmed such that it is compliant with ANSI SQL-92 or higher when used to access SQL-like databanks such as Microsoft SQL Server and Oracle as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to be able to be designed and programmed such that it is compliant with ANSI SQL-92 or higher when used to access SQL-like databanks such as Microsoft SQL Server and Oracle then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to be able to be designed and programmed such that it is compliant with ANSI SQL-92 or higher when used to access SQL-like databanks such as Microsoft SQL Server and Oracle then assign "does not meet".</p>

ID	Solution Based Data Requirements
SB-37	<p><u>Data Retrieval Requirement</u></p> <p>The <i>SOLUTION</i> must be able to consume web services for the purpose of having the web services retrieve database data.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to be able to consume web services for the purpose of having the web services retrieve database data as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to consume web services for the purpose of having the web services retrieve database data then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to consume web services for the purpose of having the web services retrieve database data then assign "does not meet".</p>
SB-38	<p><u>Map Render Requirement</u></p> <p>The <i>SOLUTION</i> must be able to render a thematic map in the <i>DASHBOARD</i> using information provided in a database table.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to be able to render a thematic map in the <i>DASHBOARD</i> using information provided in a database table as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to render a thematic map in the <i>DASHBOARD</i> using information provided in a database table then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to render a thematic map in the <i>DASHBOARD</i> using information provided in a database table then assign "does not meet".</p>
SB-39	<p><u>Chart Render Requirement</u></p> <p>The <i>SOLUTION</i> must be able to render a graph or chart in the <i>DASHBOARD</i> using information provided in a database table.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to be able to render a thematic map in the <i>DASHBOARD</i> using information provided in a database table as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to render a graph or chart in the <i>DASHBOARD</i> using information provided in a database table then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to render a graph or chart in the <i>DASHBOARD</i> using information provided in a database table then assign "does not meet".</p>
SB-40	<p><u>Data Update Requirement</u></p> <p>The <i>SOLUTION</i> must not require a re-installation due to any update of data.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to update data without the need for a re-installation of the <i>SOLUTION</i> as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to accept and use an update of data without the need to re-install the <i>SOLUTION</i> then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to accept and use an update of data without the need to re-install the <i>SOLUTION</i> then assign "does not meet".</p>

ID	Solution Based Data Requirements
SB-41	<p><u>Data Linkage Requirement</u></p> <p>The <i>SOLUTION</i> must be able to join non-spatial data (e.g., statistical data) to geographic features using a primary key (to be provided by Statistics Canada).</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to join geographic features to non-spatial data (e.g., statistical data) using a primary key as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to join non-spatial data to geographic features using a primary key then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to join non-spatial data to geographic features using a primary key then assign "does not meet".</p>
SB-42	<p><u>Physical Data Optimization Requirement</u></p> <p>The <i>SOLUTION</i> must store data in a normalized database internal schema that will allow for a balance in performance for both retrieval and updates such that it will achieve the performance requirements requested in this specification.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to store data in a normalized database internal schema by reviewing the Contractor's final data model.</p> <p>If the Contractor's final data model successful demonstrates the ability of the <i>SOLUTION</i> to store data in a normalized database internal schema then assign "meets".</p> <p>If the Contractor's final data model does not successful demonstrate the ability of the <i>SOLUTION</i> to store data in a normalized database internal schema then assign "does not meet".</p>
SB-43	<p><u>Geographic Data Requirement</u></p> <p>The <i>SOLUTION</i> must be able to display of both raster and vector (line, polygon, point) data for different levels of geography (e.g., multiple boundaries).</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to display of both raster and vector data as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to display of both raster and vector data then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to display of both raster and vector data then assign "does not meet".</p>
SB-44	<p><u>Basemap Data Requirement</u></p> <p>The <i>SOLUTION</i> must be able to use the basemap information provided by Statistics Canada in maps included in any presentation layers. This includes:</p> <ul style="list-style-type: none"> a. Road network b. Hydrography (line and poly) c. Place (points) <p>Statistics Canada's spatial geographic data is in ESRI ArcGIS formats.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to use basemap information provided by Statistics Canada as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to use basemap information provided by Statistics Canada then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to use basemap information provided by Statistics Canada then assign "does not meet".</p>

ID	Solution Based Data Requirements
SB-45	<p><u>Geographic Data Requirement</u></p> <p>At a minimum the <i>SOLUTION</i> must be able to display 2 polygon <i>GEOGRAPHIC LEVEL</i> layers at any given time.</p> <p>At a minimum the following <i>GEOGRAPHIC LEVELS</i> will be displayed:</p> <ol style="list-style-type: none">Canada (1)Provinces and territories (13)Census Metropolitan Areas (<i>CMAs</i>) and Census Agglomerations (<i>CAs</i>) (200+/-)Census divisions (300 +/-)Federal electoral districts (338)Aggregated dissemination areas (<i>ADAs</i>) (5000 +/-)Census subdivisions (<i>CSDs</i>) (5000 +/-)Census tracts (among <i>CMAs</i> and tracted <i>Cas</i>) (5500 +/-) <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to display 2 polygon <i>GEOGRAPHIC LEVEL</i> layers from the list above at the same time as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to display 2 polygon <i>GEOGRAPHIC LEVEL</i> layers at the same time then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to display 2 polygon <i>GEOGRAPHIC LEVEL</i> layers at the same time then assign "does not meet".</p>

5.4.1.9 Solution Based Requirements Related to Future Development

ID	Solution Based Requirements Related to Future Development
SB-46	<p><u>API Design Requirement</u></p> <p>The Contractor must provide Application Programming Interfaces (<i>APIs</i>) for the <i>SOLUTION</i> that are simple to use and allows <i>GC USERS</i> (developers) access to a wide-ranging of functionality.</p> <p>All <i>APIs</i> exposed to <i>GC USERS</i> (developers) must be sufficiently documented to allow their complete use by <i>GC USERS</i> (developers). The <i>API</i> documentation may include but is not limited to developers' guide, online help, "How To" online presentations.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to provide <i>APIs</i> that are simple to use and allows <i>GC USERS</i> access to a wide-ranging of functionality as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to provide <i>APIs</i> that are simple to use and allows <i>GC USERS</i> access to a wide-ranging of functionality then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to provide <i>APIs</i> that are simple to use and allows <i>GC USERS</i> access to a wide-ranging of functionality then assign "does not meet".</p>

ID	Solution Based Requirements Related to Future Development
SB-47	<p><u>Software Development Kit Requirement</u></p> <p>A software development kit (<i>SDK</i>) and documentation must be provided to allow <i>GC USERS</i> to independently implement additional features to be attached as part of the <i>SOLUTION</i>.</p> <p>The <i>SDK</i> must be sufficiently documented to allow for their complete use by <i>GC USERS</i> (developers). The <i>SDK</i> documentation may include but is not limited to developers' guide, online help, "How To" online presentations.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to provide <i>SDKs</i> that are simple to independently implement additional features to be attached to the <i>SOLUTION</i> as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to provide <i>SDKs</i> that are simple to independently implement additional features to be attached to the <i>SOLUTION</i> then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to provide <i>SDKs</i> that are simple to independently implement additional features to be attached to the <i>SOLUTION</i> then assign "does not meet".</p>

5.4.1.10 Solution Based Requirements Related to the General Design of the END-USER Interface

ID	Solution Based Requirements Related to the General Design of the END-USER Interface
SB-48	<p><u>Screen Resolution Design Requirement</u></p> <p>The <i>SOLUTION</i> must allow for the creation of presentation layers designed primarily for display on desktops based on a 1024 X 768 screen resolution.</p> <p>All elements in the presentation layer(s) must be visible on one screen, without scrolling in a dashboard-style, when viewed on a desktop with a 1024 X 768 or higher screen resolution.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to display presentation layers on desktops based on a 1024 X 768 screen resolution without the need for scrolling as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to display presentation layers on desktops based on a 1024 X 768 screen resolution without the need for scrolling then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to display presentation layers on desktops based on a 1024 X 768 screen resolution without the need for scrolling then assign "does not meet".</p>
SB-49	<p><u>Color Design Requirement</u></p> <p>The <i>SOLUTION</i> must be able to apply a variety of colours to non-map graphic elements.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to apply a variety of colours to non-map graphic elements as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to apply a variety of colours to non-map graphic elements then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to apply a variety of colours to non-map graphic elements then assign "does not meet".</p>

ID	Solution Based Requirements Related to the General Design of the <i>END-USER</i> Interface
SB-50	<p><u>Object Design Requirement</u></p> <p>The <i>SOLUTION</i> must provide and deliver the functionality to design presentation layers (web pages) that enable selection (through radio buttons, drop down lists, etc.), navigation (forward, backward), opening different views of the presentation layer(s) or <i>DASHBOARD</i> elements such as charts through tabs or other similar functions.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to provide and deliver the functionality to design presentation layers (web pages) that enable selection (through radio buttons, drop down lists, etc.), navigation (forward, backward), opening different views of the presentation layer(s) or <i>DASHBOARD</i> elements such as charts through tabs or other similar functions as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to provide and deliver the functionality to design presentation layers (web pages) that enable selection (through radio buttons, drop down lists, etc.), navigation (forward, backward), opening different views of the presentation layer(s) or <i>DASHBOARD</i> elements such as charts through tabs or other similar functions then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to provide and deliver the functionality to design presentation layers (web pages) that enable selection (through radio buttons, drop down lists, etc.), navigation (forward, backward), opening different views of the presentation layer(s) or <i>DASHBOARD</i> elements such as charts through tabs or other similar functions then assign "does not meet".</p>
SB-51	<p><u>Dashboard Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>GC USERS</i> to create presentation layers in the form of statistical <i>DASHBOARDS</i>.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to design presentation layers as <i>DASHBOARDS</i> as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to design presentation layers as <i>DASHBOARDS</i> then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to design presentation layers as <i>DASHBOARDS</i> then assign "does not meet".</p>
SB-52	<p><u>Map Display Design Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>GC USERS</i> to specify data to be rendered as a map and add the map to the presentation layers.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to specify data to be rendered as a map on presentation layers as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to allow <i>GC-USERS</i> to specify data to be rendered as a map and add it to a presentation layer then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to allow <i>GC-USERS</i> to specify data to be rendered as a map and add it to a presentation layer then assign "does not meet".</p>

ID	Solution Based Requirements Related to the General Design of the <i>END-USER</i> Interface
SB-53	<p><u>Chart and Graph Display Design Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>GC USERS</i> to specify data to be rendered as a chart/graph and add the chart/graph to presentation layers.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to specify data to be rendered as a chart/graph and added to a presentation layer as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to allow <i>GC-USERS</i> to specify data to be rendered as a chart/graph and add it to a presentation layer then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to allow <i>GC-USERS</i> to specify data to be rendered as a chart/graph and add it to a presentation layer then assign "does not meet".</p>
SB-54	<p><u>Text Box Display Design Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>GC USERS</i> to specify data to be displayed in a text box and add text boxes to presentation layers.</p> <p>If there is more text to be displayed than space available in the text box the <i>SOLUTION</i> must allow the <i>END-USER</i> to scroll to see more.</p> <p>The type of text to display includes things such as Factoids, Top and Bottom Lists, Analytical Bullets, Hyperlinks, General information, etc.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>GC-USERS</i> specify data to be displayed in a text box and add it to a presentation layer as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to allow <i>GC-USERS</i> to specify data to be displayed in a text box and add it to a presentation layer then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to allow <i>GC-USERS</i> to specify data to be displayed in a text box and add it to a presentation layer then assign "does not meet".</p>
SB-55	<p><u>Image Display Design Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>GC USERS</i> to specify images, graphics and any associated text and add them to presentation layers.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to specify images, graphics and any associated text and added to a presentation layer as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to allow <i>GC-USERS</i> to specify images, graphics and any associated text and add them to a presentation layer then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to allow <i>GC-USERS</i> to specify images, graphics and any associated text and add them to a presentation layer then assign "does not meet".</p>

ID	Solution Based Requirements Related to the General Design of the <i>END-USER</i> Interface
SB-56	<p><u>End-User Footnotes Functionality Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>GC USERS</i> to specify footnotes to be displayed on <i>DASHBOARD</i> presentation layers.</p> <p>The information displayed in this space must be automatically updated each time the <i>END-USER</i> selects an <i>INDICATOR</i> to be displayed.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>GC USERS</i> to specify footnotes to be displayed on a presentation layer as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to allow <i>GC-USERS</i> to specify footnotes to be displayed on a presentation layer then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to allow <i>GC-USERS</i> to specify footnotes to be displayed on a presentation layer then assign "does not meet".</p>
SB-57	<p><u>END-USER Geographic Unit Selection Display Requirement</u></p> <p>The <i>SOLUTION</i> must display the name of the selected <i>GEOGRAPHIC AREA(S)</i> (e.g., Ottawa). This can be part of the legend, in a text box or as its own feature so long as it is easily identifiable by and <i>END-USER</i>. The selected <i>GEOGRAPHIC AREA</i> is the primary focus of the <i>DASHBOARD</i>. If no area is selected the default name to display is Canada.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to display the name of the selected <i>GEOGRAPHIC AREA(S)</i> as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to display the name of the selected <i>GEOGRAPHIC AREA(S)</i> then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to display the name of the selected <i>GEOGRAPHIC AREA(S)</i> then assign "does not meet".</p>

5.4.1.11 Solution Based Requirements - Design of the 2016 Census Presentation Layer(s)

ID	Solution Based Requirements - Design of the 2016 Census Presentation Layer(s)
SB-58	<p><u>2016 Census Presentation Layer(s)</u></p> <p>The 2016 Census presentation layer(s) must be designed to use all of the <i>SOLUTION</i>'s functionality available to an <i>END-USER</i>. The design of the presentation layer(s) is open in terms of number and placement of <i>DASHBOARD</i> elements so long as the minimum design requirements identified below are met.</p> <p>The 2016 Census presentation layer(s) must be developed based on the Contractors design proposal.</p> <p>The Technical Authority will assess compliance of the by comparing the design of the 2016 Census presentation layer(s) against the design proposal submitted during the bid evaluation process as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration that the design of the 2016 Census presentation layer(s) matches the design proposal submitted during the bid evaluation process then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate that the design of the 2016 Census presentation layer(s) matches the design proposal submitted during the bid evaluation process then assign "does not meet".</p>

ID	Solution Based Requirements - Design of the 2016 Census Presentation Layer(s)
SB-59	<p><u>Map Display Minimum Design Requirement</u></p> <p>The 2016 Census presentation layer(s) must include 1 map and it must be the primary focus, taking up the greatest amount of available screen space on <i>DASHBOARD</i>.</p> <p>The Technical Authority will assess compliance of the by comparing the design of the 2016 Census presentation layer(s) against the design proposal submitted during the bid evaluation process as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration that the design of the 2016 Census presentation layer(s) matches the design proposal submitted during the bid evaluation process then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate that the design of the 2016 Census presentation layer(s) matches the design proposal submitted during the bid evaluation process then assign "does not meet".</p>
SB-60	<p><u>Chart and Graph Minimum Display Design Requirement</u></p> <p>The 2016 Census presentation layer(s) must have, at a minimum, at least 1 distinct chart/graph area on the <i>DASHBOARD</i>.</p> <p>The 2016 Census <i>DASHBOARD</i> presentation layer(s) could have more chart/graph areas if that is part of the Contractor's design proposal.</p> <p>The Technical Authority will assess compliance of the by comparing the design of the 2016 Census presentation layer(s) against the design proposal submitted during the bid evaluation process as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration that the design of the 2016 Census presentation layer(s) matches the design proposal submitted during the bid evaluation process then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate that the design of the 2016 Census presentation layer(s) matches the design proposal submitted during the bid evaluation process then assign "does not meet".</p>

ID	Solution Based Requirements - Design of the 2016 Census Presentation Layer(s)
SB-61	<p><u>Text Box Minimum Display Design Requirement</u></p> <p>The 2016 Census presentation layer(s) must have, at a minimum, at least 1 distinct area to display text on the <i>DASHBOARD</i>.</p> <p>The 2016 Census <i>DASHBOARD</i> presentation layer(s) could have more text boxes if that is part of the Contractor's design proposal.</p> <p>The type of text to display includes things such as Factoids, Top and Bottom Lists, Analytical Bullets, Hyperlinks, General information, etc.</p> <p>When displaying the analytical bullets the <i>SOLUTION</i> must be capable of displaying up to three (3) analytical bullets at one time (assuming an appropriate font size has been selected) in the text box.</p> <p>If there is more text to be displayed than space available the <i>SOLUTION</i> must allow the <i>END-USER</i> to scroll in the text box to see more.</p> <p>The Technical Authority will assess compliance of the by comparing the design of the 2016 Census presentation layer(s) against the design proposal submitted during the bid evaluation process as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration that the design of the 2016 Census presentation layer(s) matches the design proposal submitted during the bid evaluation process then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate that the design of the 2016 Census presentation layer(s) matches the design proposal submitted during the bid evaluation process then assign "does not meet".</p>

5.4.1.12 Solution Based Map Requirements

ID	Solution Based Map Requirements
SB-62	<p><u>Thematic Map Design Requirement</u></p> <p>The <i>SOLUTION</i> must render different types of thematic maps. This list must include but is not limited to the following:</p> <ul style="list-style-type: none">a. Choropleth mapsb. Symbols <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability render choropleth and symbol maps as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to render choropleth and symbol maps then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to render choropleth and symbol maps then assign "does not meet".</p>

ID	Solution Based Map Requirements
SB-63	<p><u>INDICATOR Selection Design Requirement</u></p> <p>The <i>SOLUTION</i> must clearly display to <i>END-USERS</i> the <i>INDICTOR(S)</i> they have selected to be mapped which becomes the primary focus of the <i>DASHBOARD</i>.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to clearly display to <i>END-USERS</i> the selected <i>INDICTOR</i> and that it is the primary focus of the <i>DASHBOARD</i> as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to clearly display to <i>END-USERS</i> the selected <i>INDICTOR</i> and that it is the primary focus of the <i>DASHBOARD</i> then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to clearly display to <i>END-USERS</i> the selected <i>INDICTOR</i> and that it is the primary focus of the <i>DASHBOARD</i> then assign "does not meet".</p>
SB-64	<p><u>Map Color Design Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to select from different colour palettes using either hue (e.g., red to green) or value (e.g., shades of blue) with shading techniques such as transparency for thematic maps by <i>GC USERS</i> (designers) for display on the presentation layer(s).</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>GC USERS</i> to select different colour palettes for thematic maps as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to allow <i>GC USERS</i> to select different colour palettes for thematic maps then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to allow <i>GC USERS</i> to select different colour palettes for thematic maps then assign "does not meet".</p>
SB-65	<p><u>Map "No Data" Design Requirement</u></p> <p>The <i>SOLUTION</i> must clearly indicate to the <i>END-USER</i> when no data is available for a given <i>GEOGRAPHIC AREA</i>.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to indicate to the <i>END-USER</i> when no data is available for a given <i>GEOGRAPHIC AREA</i> as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to indicate to the <i>END-USER</i> when no data is available for a given <i>GEOGRAPHIC AREA</i> then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to indicate to the <i>END-USER</i> when no data is available for a given <i>GEOGRAPHIC AREA</i> then assign "does not meet".</p>
SB-66	<p><u>Map Legends Display Design Requirement</u></p> <p>The <i>SOLUTION</i> must include a legend in maps.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to include a legend in maps as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to include a legend in maps then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to include a legend in maps then assign "does not meet".</p>

ID	Solution Based Map Requirements
SB-67	<p><u>END-USER GEOGRAPHIC LEVEL Display Requirement</u></p> <p>The <i>SOLUTION</i> must display to the <i>END-USER</i> the <i>GEOGRAPHIC LEVELS</i> (e.g., Provinces and CSDs) that are being displayed. The cartographic design must take this requirement into account. This information should be part of the map legend.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to display to the <i>END-USER</i> the <i>GEOGRAPHIC LEVELS</i> (e.g., Provinces and CSDs) that are being displayed as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to display to the <i>END-USER</i> the <i>GEOGRAPHIC LEVELS</i> (e.g., Provinces and CSDs) that are being displayed then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to display to the <i>END-USER</i> the <i>GEOGRAPHIC LEVELS</i> (e.g., Provinces and CSDs) that are being displayed then assign "does not meet".</p>
SB-68	<p><u>END-USER Map Active Layer Impact Functionality Requirement</u></p> <p>The <i>SOLUTION</i> must show the active (i.e. selectable) <i>GEOGRAPHIC LEVEL</i> layer (e.g., CSD). The cartographic design must take this requirement into account. This can be part of the legend.</p> <p>The active layer is dependent on either scale level or <i>END-USER</i> selection. If the <i>END-USER</i> has no 'Active <i>GEOGRAPHIC LEVEL</i>' selected (i.e., initial view) and they zoom in and out or pan around the map, then various <i>GEOGRAPHIC LEVELS</i> will appear/change based on the map scale.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to display the name of the active (i.e. selectable) <i>GEOGRAPHIC LEVEL</i> layer as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to display the name of the active (i.e. selectable) <i>GEOGRAPHIC LEVEL</i> layer then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to display the name of the active (i.e. selectable) <i>GEOGRAPHIC LEVEL</i> layer then assign "does not meet".</p>
SB-69	<p><u>Map Scale Bar Display Design Requirement</u></p> <p>The <i>SOLUTION</i> must display a scale bar on the map showing metric units.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to display a scale bar on the map showing metric units as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to display a scale bar on the map showing metric units then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> to display a scale bar on the map showing metric units then assign "does not meet".</p>
SB-70	<p><u>Map North Arrow Functionality Requirement</u></p> <p>The <i>SOLUTION</i> must have a north arrow present on the map.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i> having a north arrow on the map as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i> having a north arrow on the map then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i> having a north arrow on the map then assign "does not meet".</p>

5.4.1.13 Solution Based Chart Requirements

ID	Solution Based Chart Requirements
SB-71	<p><u>Chart Type Display Design Requirement</u></p> <p>The <i>SOLUTION</i> must be able to render different types of charts. This must include but is not limited to the following:</p> <ul style="list-style-type: none">a. Bar (horizontal)b. Column (vertical)c. Lined. Piee. Doughnut <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to render the chart types listed in a., b., c., d., and e. above as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the ability of the <i>SOLUTION</i> to render the chart types then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the ability of the <i>SOLUTION</i> render the chart types then assign "does not meet".</p>
SB-72	<p><u>Chart Title Display Design Requirement</u></p> <p>The <i>SOLUTION</i> must display a title for any charts.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to display a title for any charts as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to display a title for any charts then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to display a title for any charts then assign "does not meet".</p>
SB-73	<p><u>Chart Legend Display Design Requirement</u></p> <p>The <i>SOLUTION</i> must display a chart legend if data classes are not obvious.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to display a chart legend as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to display a chart legend then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to display a chart legend then assign "does not meet".</p>

5.4.1.14 Solution Based *INDICATOR* Management Requirements

ID	Solution Based <i>INDICATOR</i> Management Requirements
SB-74	<p><u><i>INDICATOR</i> Management Requirement</u></p> <p>The <i>SOLUTION</i> must be able to manage the detailed characteristics and features associated with each <i>INDICATOR</i> including the interactivity conditions / outcomes between elements and how this information is used in the <i>DASHBOARD</i> elements (maps, charts, images, graphics, tables, text, and links) on presentation layer(s).</p> <p>The <i>SOLUTION</i> must provide the ability to allow <i>GC USERS</i> to store, update and save <i>INDICATOR</i> parameters like:</p> <ol style="list-style-type: none"> Type of map or chart to use Titles (map, chart, lists) Labels Units if applicable (e.g., km, square km etc.) Precision Class intervals (map and chart) Zoom level (map) Layer visibility (map) Symbology (map) Associated text Associated hyperlinks Footnotes Outcomes / views presented to <i>END-USERS</i> when they interact with each of the elements or selectable parameters on the dashboard <p>How this information is to be stored, managed and used by the <i>SOLUTION</i> is open. For example, the <i>SOLUTION</i> can implement a tool with a <i>GUI</i> for <i>GC USERS</i> or design a process that can manage this information.</p> <p><i>GC USERS</i> must be able to save the updates for implementation by the <i>SOLUTION</i> on the presentation layers and be able to access them for possible future updates. The <i>SOLUTION</i> must manage the possibility that more than 1 <i>GC USER</i> could be updating this information at the same time.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to manage and save the detailed characteristics and features associated with each <i>INDICATOR</i> as part of solution acceptance testing. This includes testing if more than 1 <i>GC USER</i> can make an update at the same time.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to manage and save the detailed characteristics and features associated with each <i>INDICATOR</i> then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to manage and save the detailed characteristics and features associated with each <i>INDICATOR</i> then assign "does not meet".</p>
SB-75	<p><u><i>INDICATOR</i> Characteristic Publishing Requirement</u></p> <p>The <i>SOLUTION</i> must use the <i>INDICATOR</i> information specified by <i>GC USERS</i> for publishing on the presentation layer(s).</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to use the <i>INDICATOR</i> information specified by <i>GC USERS</i> for publishing on the presentation layer(s) as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to use the <i>INDICATOR</i> information specified by <i>GC USERS</i> for publishing on the presentation layer(s) then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to use the <i>INDICATOR</i> information specified by <i>GC USERS</i> for publishing on the presentation layer(s) then assign "does not meet".</p>

5.4.1.15 Solution Based Requirements – Interactivity/View Outcomes

ID	Solution based Requirements - Interactivity/View Outcomes
SB-76	<p><u>View Outcome Requirement</u></p> <p>The <i>SOLUTION</i> must use information provided and pre-defined by Statistics Canada to automatically update the views returned to the <i>END-USER</i> based on their selections and interactions with the <i>DASHBOARD</i>.</p> <p>The data to be populated into the various <i>DASHBOARD</i> elements will be based on factors such as</p> <ol style="list-style-type: none"> The primary <i>INDICATOR</i> selected The <i>GEOGRAPHIC LEVEL</i> selected Whether or not a <i>GEOGRAPHIC AREA</i> or multiple <i>GEOGRAPHIC AREAS</i> are selected <p>For example, if the <i>END-USER</i> selects the <i>GEOGRAPHIC AREA</i> of Ottawa the text bullets that are displayed should relate to Ottawa.</p> <p><i>GC USERS</i> will specify information on expected outcomes/views for all scenario cases for each presentation layer. This will be in the form of Decision Trees. See Appendix D for an example of what the decision trees <u>could</u> look like for the 2016 Census presentation layer(s). <i>Note: Appendix D is provided for illustration purposes only.</i> Decision Trees are dependent on the final design of each presentation layer. Test data and the decision tree for the 2016 Census presentation layer(s) will be provided 30 days after finalization of the Data Model and <i>DASHBOARD</i> design.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to use information provided and pre-defined by <i>GC USERS</i> to automatically update the views returned to the <i>END-USER</i> based on their selections and interactions with the <i>DASHBOARD</i> as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to use information provided and pre-defined by <i>GC USERS</i> to automatically update the views returned to the <i>END-USER</i> based on their selections and interactions with the <i>DASHBOARD</i> then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to use information provided and pre-defined by <i>GC USERS</i> to automatically update the views returned to the <i>END-USER</i> based on their selections and interactions with the <i>DASHBOARD</i> then assign "does not meet".</p>
SB-77	<p><u>Interactivity Between <i>DASHBOARD</i> Elements Requirement</u></p> <p>The <i>SOLUTION</i> must provide the functionality for interactivity between <i>DASHBOARD</i> elements.</p> <p>For example, if an <i>END-USER</i> selects a feature within a chart or clicks on a specific <i>GEOGRAPHIC AREA</i> name (e.g., Ottawa) in a text element (e.g., a top 10 list) the map display, text and any graphics if applicable to the design must be adjusted accordingly and vice versa. Another example is if a chart being displayed is the percentage of people in different age categories and the <i>END-USER</i> selects the 'under 18' age group the primary <i>INDICATOR</i> will be adjusted to show this. The other <i>DASHBOARD</i> elements will be automatically adjusted. If the chart is showing the ranking of CSDs from low to high for average income and the <i>END-USER</i> selects a <i>GEOGRAPHIC AREA</i> in the chart, the focus of the other <i>DASHBOARD</i> elements would change to reflect the <i>END-USERS</i> selection.</p> <p>The exact behavior when an <i>END-USER</i> interacts with <i>DASHBOARD</i> elements must be able to be defined by <i>GC USERS</i> and is unique to each presentation layer.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to have interactivity between <i>DASHBOARD</i> elements as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to have interactivity between <i>DASHBOARD</i> elements then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to have interactivity between <i>DASHBOARD</i> elements then assign "does not meet".</p>

5.4.1.16 Solution Based Text Requirements

ID	Solution Based Text Requirements
SB-78	<p><u>Character Set Support Requirement</u></p> <p>The <i>SOLUTION</i> must support the UTF-8 character encoding and allow for the display of special characters such as superscript.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to support the UTF-8 character encoding and allow for the display of special characters as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to support the UTF-8 character encoding and allow for the display of special characters then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to support the UTF-8 character encoding and allow for the display of special characters then assign "does not meet".</p>
SB-79	<p><u>Text Define and Display Design Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>GC USERS</i> to define the text to be shown along with the text attributes (font type and size) for a given label, free format text box and <i>INDICATOR</i>.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>GC USERS</i> to define the text to be shown along with the text attributes (font type and size) for a given label, free format text box and <i>INDICATOR</i> as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow <i>GC USERS</i> to define the text to be shown along with the text attributes (font type and size) for a given label, free format text box and <i>INDICATOR</i> then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow <i>GC USERS</i> to define the text to be shown along with the text attributes (font type and size) for a given label, free format text box and <i>INDICATOR</i> then assign "does not meet".</p>
SB-80	<p><u>Text Display Order Design Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>GC USERS</i> to define the order (prioritize) of the text to be shown in a text box. Specifically, the order of sentences to show in the text bullet list. The information to show is dependent on the <i>INDICATOR</i> and the <i>GEOGRAPHIC AREA</i> selected.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>GC USERS</i> to define the order of the text to be shown in text box as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow <i>GC USERS</i> to define the order of the text to be shown in text box then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow <i>GC USERS</i> to define the order of the text to be shown in text box then assign "does not meet".</p>

ID	Solution Based Text Requirements
SB-81	<p><u>Text Entry Design Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>GC USERS</i> to enter complete sentence structure information for display in text boxes and allow it to be saved so that it can later be displayed in presentation layers. The information will relate to <i>GEOGRAPHIC AREAS</i> and the <i>INDICATOR</i>. For example, "The CSD of Ottawa has increased in population size by 5%."</p> <p>The <i>SOLUTION</i> must manage the possibility that more than 1 <i>GC USER</i> could be updating the text information at the same time.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>GC USERS</i> to enter complete sentence structure information in a predefined area and save it so that it can be displayed in the presentation layer as part of solution acceptance testing. This includes testing if more than 1 <i>GC USER</i> can make an update at the same time.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow <i>GC USERS</i> to enter complete sentence structure information in a predefined area and save it so that it can be displayed in the presentation layer then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow <i>GC USERS</i> to enter complete sentence structure information in a predefined area and save it so that it can be displayed in the presentation layer then assign "does not meet".</p>
SB-82	<p><u>END-USER Scrolling Functionality Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>END-USERS</i> to scroll within text elements if required.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to scroll within text elements as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to scroll within text elements then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to scroll within text elements then assign "does not meet".</p>

5.4.1.17 Solution Map Functionality Based Requirements

ID	Solution Based Map Functionality Requirements
SB-83	<p><u>END-USER Map Zoom Functionality Requirement</u></p> <p>The <i>SOLUTION</i> must have a zoom feature. The <i>END-USER</i> must be able to:</p> <ol style="list-style-type: none"> zoom in (+) zoom out (-) zoom in (+) to pre-defined scales zoom out (-) to pre-defined scales zoom completely to a Canada-wide view <p>The <i>END-USER</i> must be able to do this using buttons and the roller on a pointing device.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to use zoom functions as listed in a., b., c., d., and e. above using buttons and the roller on a pointing device as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to use zoom functions as listed in a., b., c., d., and e. above then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to use zoom functions as listed in a., b., c., d., and e. above then assign "does not meet".</p>

ID	Solution Based Map Functionality Requirements
SB-84	<p><u>END-USER Map Zoom Functionality Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>GC USERS</i> to be able to define distinct zoom levels, and specify what <i>GEOGRAPHIC LEVELS</i> are displayed.</p> <p>The exact number of zoom levels will be determined during the design phase. It will likely be 17.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>GC USERS</i> to be able to define distinct zoom levels, and specify what <i>GEOGRAPHIC LEVELS</i> are displayed as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow <i>GC USERS</i> to be able to define distinct zoom levels, and specify what <i>GEOGRAPHIC LEVELS</i> are displayed then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow <i>GC USERS</i> to be able to define distinct zoom levels, and specify what <i>GEOGRAPHIC LEVELS</i> are displayed then assign "does not meet".</p>
SB-85	<p><u>END-USER Map Pan Functionality Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>END-USERS</i> to pan around the map by dragging to centre it, to a desired location. The whole map will appear to move and when the <i>END-USER</i> releases the pointing device (e.g., a button on a mouse) the map must be refreshed in its new position while retaining the original scale.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow an <i>END-USER</i> to pan around the map as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow an <i>END-USER</i> to pan around the map then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow an <i>END-USER</i> to pan around the map then assign "does not meet".</p>
SB-86	<p><u>END-USER Map Restart Functionality Requirement</u></p> <p>The <i>SOLUTION</i> must have a map restart button that will refresh the map to the default initial view of Canada if selected by the <i>END-USER</i>. If the <i>END-USER</i> uses this function it maintains any previously selected <i>INDICATOR</i>.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow an <i>END-USER</i> to refresh the map to the default initial view of Canada by selecting a button as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow an <i>END-USER</i> to refresh the map to the default initial view of Canada by selecting a button then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow an <i>END-USER</i> to refresh the map to the default initial view of Canada by selecting a button then assign "does not meet".</p>

ID	Solution Based Map Functionality Requirements
SB-87	<p><u>END-USER GEOGRAPHIC LEVEL Display Functionality Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>END-USERS</i> to select up to 2 <i>GEOGRAPHIC LEVELS</i> (e.g., Provinces and CSDs) to be displayed in the map. If the <i>END-USER</i> uses this functionality it overrides any predefined <i>GEOGRAPHIC LEVEL</i> boundary display identified by <i>GC USERS</i> based on map scale until such a time when the <i>END-USER</i> makes a new selection(s) or clears the selection(s).</p> <p>The cartographic design must take this requirement into account. Each <i>GEOGRAPHIC LEVEL</i> must be symbolized differently. Unless otherwise specified by the active layer is always lowest <i>GEOGRAPHIC LEVEL</i>.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow an <i>END-USER</i> to select up to 2 <i>GEOGRAPHIC LEVELS</i> to be displayed in the map as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow an <i>END-USER</i> to select up to 2 <i>GEOGRAPHIC LEVELS</i> to be displayed in the map then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow an <i>END-USER</i> to select up to 2 <i>GEOGRAPHIC LEVELS</i> to be displayed in the map then assign "does not meet".</p>
SB-88	<p><u>END-USER Map Active Layer Selection Functionality Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>END-USERS</i> to control/select the map active layer.</p> <p>When multiple layers are being displayed the active layer is always the lowest <i>GEOGRAPHIC LEVEL</i> (Statistics Canada will define the levels). If the <i>END-USER</i> selects a <i>GEOGRAPHIC LEVEL</i> to make active it overrides the default levels. The selected active <i>GEOGRAPHIC LEVEL</i> remains active until the <i>END-USER</i> makes a new selection or clears all selections.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow an <i>END-USER</i> to control/select the map active layer as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow an <i>END-USER</i> to control/select the map active layer then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow an <i>END-USER</i> to control/select the map active layer then assign "does not meet".</p>
SB-89	<p><u>END-USER Map Label Functionality Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>END-USERS</i> to be able to display or not display (add or remove) map labels. By default the features in the active <i>GEOGRAPHIC LEVEL</i> map layer are labeled.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow an <i>END-USER</i> to be able to display or not display (add or remove) map labels as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability allow <i>END-USERS</i> to be able to display or not display (add or remove) map labels then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability allow <i>END-USERS</i> to be able to display or not display (add or remove) map labels then assign "does not meet".</p>

ID	Solution Based Map Functionality Requirements
SB-90	<p><u>END-USER Map Identify Button Functionality Requirement</u></p> <p>The <i>SOLUTION</i> must have a map identify button.</p> <p>When an <i>END-USER</i> clicks on a <i>GEOGRAPHIC AREA</i> in the map using the identify button, basic information (e.g., geographic name, geography type [if applicable], key highlight data characteristics) must be presented to the <i>END-USER</i> for the selected <i>GEOGRAPHIC AREA</i>.</p> <p><i>GC USERS</i> must be able to specify the information to display for each presentation layer.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to provide an <i>END-USER</i> with basic information after selecting an identify button as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to provide an <i>END-USER</i> with basic information after selecting an identify button then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to provide an <i>END-USER</i> with basic information after selecting an identify button then assign "does not meet".</p>
SB-91	<p><u>END-USER Map Feature Selection Functionality Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>END-USERS</i> to select or de-select a <i>GEOGRAPHIC AREA</i> (e.g., a province such as Ontario or a CSD such as Ottawa) from the active <i>GEOGRAPHIC LEVEL</i>. Up to 5 <i>GEOGRAPHIC AREAS</i> from the same <i>GEOGRAPHIC LEVEL</i> can be selected at the same time.</p> <p>The information displayed in the <i>DASHBOARD</i> elements would change depending the number of <i>GEOGRAPHIC AREAS</i> selected. For example if only 1 <i>GEOGRAPHIC AREA</i> is selected the <i>DASHBOARD</i> elements might show how this area relates to all other areas in Canada whereas if more than 1 <i>GEOGRAPHIC AREA</i> is selected the information in the <i>DASHBOARD</i> elements might be focused on only the 2 (or more) selected areas. The <i>GEOGRAPHIC AREAS</i> selected become the focus of the <i>DASHBOARD</i>. If no area is selected the focus of the <i>DASHBOARD</i> elements relate to the default area which is Canada.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow an <i>END-USER</i> to select or de-select up to 5 <i>GEOGRAPHIC AREAS</i> from the active <i>GEOGRAPHIC LEVEL</i> as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow an <i>END-USER</i> to select or de-select up to 5 <i>GEOGRAPHIC AREAS</i> from the active <i>GEOGRAPHIC LEVEL</i> then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow an <i>END-USER</i> to select or de-select up to 5 <i>GEOGRAPHIC AREAS</i> from the active <i>GEOGRAPHIC LEVEL</i> then assign "does not meet".</p>

ID	Solution Based Map Functionality Requirements
SB-92	<p><u>END-USER Map Unit Identification Functionality Requirement</u></p> <p>The <i>SOLUTION</i> must clearly identify selected <i>GEOGRAPHIC AREA(S)</i> on the map without affecting the thematic map symbology.</p> <p>The cartographic design must take this requirement into account.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to clearly identify selected <i>GEOGRAPHIC AREA(S)</i> on the map without affecting the thematic map symbology as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to clearly identify selected <i>GEOGRAPHIC AREA(S)</i> on the map without affecting the thematic map symbology then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to clearly identify selected <i>GEOGRAPHIC AREA(S)</i> on the map without affecting the thematic map symbology then assign "does not meet".</p>
SB-93	<p><u>END-USER Map Active Area Impact Functionality Requirement</u></p> <p>Once an <i>END-USER</i> has selected a <i>GEOGRAPHIC AREA</i> the <i>GEOGRAPHIC LEVEL</i> layer in which it is found must automatically become the 'Active <i>GEOGRAPHIC LEVEL</i> Map Layer'. If the <i>END-USER</i> zooms in or out, or pans around the map, the 'Active <i>GEOGRAPHIC LEVEL</i> Map Layer' must remain the same.</p> <p>If the <i>END-USER</i> has no 'Active <i>GEOGRAPHIC LEVEL</i> Map Layer' selected (i.e., initial view) and they zoom in and out or pan around the map, then various <i>GEOGRAPHIC LEVELS</i> must appear automatically and the active <i>GEOGRAPHIC LEVEL</i> Map Layer will be defined by <i>GC USERS</i> based on the map scale.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to make the <i>GEOGRAPHIC LEVEL</i> layer in which selected a <i>GEOGRAPHIC AREA</i> is found the 'Active <i>GEOGRAPHIC LEVEL</i> Map Layer' as part of solution acceptance testing.. The Technical Authority will also assess compliance of the <i>SOLUTION</i>'s ability automatically set the active <i>GEOGRAPHIC LEVEL</i> Map Layer based on the map scale if the no <i>GEOGRAPHIC AREA</i> is selected as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to make the <i>GEOGRAPHIC LEVEL</i> layer in which selected a <i>GEOGRAPHIC AREA</i> is found the 'Active <i>GEOGRAPHIC LEVEL</i> Map Layer' the <i>SOLUTION</i>'s ability automatically set the active <i>GEOGRAPHIC LEVEL</i> Map Layer based on the map scale if the no <i>GEOGRAPHIC AREA</i> is selected then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to make the <i>GEOGRAPHIC LEVEL</i> layer in which selected a <i>GEOGRAPHIC AREA</i> is found the 'Active <i>GEOGRAPHIC LEVEL</i> Map Layer' the <i>SOLUTION</i>'s ability automatically set the active <i>GEOGRAPHIC LEVEL</i> Map Layer based on the map scale if the no <i>GEOGRAPHIC AREA</i> is selected then assign "does not meet".</p>

ID	Solution Based Map Functionality Requirements
SB-94	<p><u>END-USER Map INDICATOR Selection Functionality Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>GC USERS</i> to organize <i>INDICTORS</i> by theme (e.g., Age, Sex, Income etc.). The <i>SOLUTION</i> must allow <i>END-USERS</i> to be able to select the primary <i>INDICATOR</i> to be displayed on the map. Statistics Canada will provide the themes. This is the primary <i>INDICATOR</i> and is the main focus of the <i>DASHBOARD</i>.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>GC USERS</i> to organize <i>INDICTORS</i> by theme and allow <i>END-USERS</i> to be able to select the primary <i>INDICATOR</i> to be displayed on the map as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow <i>GC USERS</i> to organize <i>INDICTORS</i> by theme and allow <i>END-USERS</i> to be able to select the primary <i>INDICATOR</i> to be displayed on the map then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow <i>GC USERS</i> to organize <i>INDICTORS</i> by theme and allow <i>END-USERS</i> to be able to select the primary <i>INDICATOR</i> to be displayed on the map then assign "does not meet".</p>
SB-95	<p><u>END-USER Map Table Display Functionality Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>END-USERS</i> to be able to show map information as a table. The <i>END-USER</i> must be able to toggle between the table and map views.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to show map information as a table and allow <i>END-USERS</i> to be able to toggle between the table and map views as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to show map information as a table and allow <i>END-USERS</i> to be able to toggle between the table and map views then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to show map information as a table and allow <i>END-USERS</i> to be able to toggle between the table and map views then assign "does not meet".</p>
SB-96	<p><u>END-USER Clear Selection Functionality Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>END-USERS</i> to be able to clear all selections. This will return <i>DASHBOARD</i> elements and views to their default values as specified by <i>GC USERS</i> for each <i>DASHBOARD</i> created.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to be able to clear all selections as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to be able to clear all selections then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to be able to clear all selections then assign "does not meet".</p>

ID	Solution Based Map Functionality Requirements
SB-97	<p><u>END-USER Cursor Hover Display Functionality Requirement</u></p> <p>The <i>SOLUTION</i> must display predefined attribute information about a <i>GEOGRAPHIC AREA</i> when an <i>END-USER</i> positions the cursor over an area on the map and the cursor remains stationary.</p> <p>Predefine attribute information will be specified by Statistics Canada. It will include information such as population and dwelling counts etc.</p> <p>The <i>END-USER</i> must be able to turn this functionality off if they choose.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to provide <i>END-USERS</i> with predefined attribute information when the cursor remains stationary over a <i>GEOGRAPHIC AREA</i> on the map as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to provide <i>END-USERS</i> with predefined attribute information when the cursor remains stationary over a <i>GEOGRAPHIC AREA</i> on the map then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to provide <i>END-USERS</i> with predefined attribute information when the cursor remains stationary over a <i>GEOGRAPHIC AREA</i> on the map then assign "does not meet".</p>

5.4.1.18 Solution Based Chart Functionality Requirements

ID	Solution Based Chart Functionality Requirements
SB-98	<p><u>END-USER Chart Display Functionality Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>END-USERS</i> to be able to change any chart being displayed.</p> <p>Charts available to the <i>END-USER</i> to select will be pre-defined by <i>GC USERS</i> for each <i>INDICATOR</i>.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to change the chart being displayed as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to change the chart being displayed then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to change the chart being displayed then assign "does not meet".</p>
SB-99	<p><u>END-USER Chart Table Display Functionality Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>END-USERS</i> to be able to show chart information as a table. The <i>END-USER</i> must be able to toggle between the table and chart views.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow provide <i>END-USERS</i> to change the chart being displayed as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow provide <i>END-USERS</i> to change the chart being displayed then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow provide <i>END-USERS</i> to change the chart being displayed then assign "does not meet".</p>

ID	Solution Based Chart Functionality Requirements
SB-100	<p><u>END-USER Chart Cursor Hover Display Functionality Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>END-USERS</i> to be able to identify <i>GEOGRAPHIC AREAS</i> by either positioning the cursor over a bar or section of a chart, or by selecting an area on any chart showing <i>GEOGRAPHIC AREAS</i>.</p> <p>When an <i>END-USER</i> positions the cursor over an area, and the cursor remains stationary, predefined attribute information about that <i>GEOGRAPHIC AREA</i> must be provided to the <i>END-USER</i>.</p> <p>Predefine attribute information must be able to be specified by <i>GC USERS</i> for each presentation layer.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to identify <i>GEOGRAPHIC AREAS</i> by either positioning the cursor over a bar or section of a chart, or by selecting an area on any chart showing <i>GEOGRAPHIC AREAS</i> as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to identify <i>GEOGRAPHIC AREAS</i> by either positioning the cursor over a bar or section of a chart, or by selecting an area on any chart showing <i>GEOGRAPHIC AREAS</i> then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to identify <i>GEOGRAPHIC AREAS</i> by either positioning the cursor over a bar or section of a chart, or by selecting an area on any chart showing <i>GEOGRAPHIC AREAS</i> then assign "does not meet".</p>

5.4.1.19 Solution Based Table Functionality Requirements

ID	Solution Based Table Functionality Requirements
SB-101	<p><u>END-USER Table Sorting Functionality Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>END-USERS</i> to be able to sort a table using any column.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to be able to sort a table using any column as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to be able to sort a table using any column then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to be able to sort a table using any column then assign "does not meet".</p>
SB-102	<p><u>END-USER Table Record Selection Functionality Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>END-USERS</i> to select a record in the table and have the corresponding <i>GEOGRAPHIC AREA</i> on the map automatically selected and identified when the <i>END-USER</i> returns to the map view. This must also update the <i>DASHBOARD</i> elements.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to select a record in the table and have the corresponding <i>GEOGRAPHIC AREA</i> on the map automatically selected and identified when the <i>END-USER</i> returns to the map view as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to select a record in the table and have the corresponding <i>GEOGRAPHIC AREA</i> on the map automatically selected and identified when the <i>END-USER</i> returns to the map view then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to select a record in the table and have the corresponding <i>GEOGRAPHIC AREA</i> on the map automatically selected and identified when the <i>END-USER</i> returns to the map view then assign "does not meet".</p>

5.4.1.20 Solution Based Search Functionality Requirements

ID	Solution Based Search Functionality Requirements
SB-103	<p><u>END-USER Search Criteria Functionality Requirement</u></p> <p>The <i>SOLUTION</i> must provide a search functionality to <i>END-USERS</i> to be able to search for various areas of interest using search criteria such as:</p> <ol style="list-style-type: none">Place namesGeographic namesPostal codes <p>Back-end look-up tables to support this functionality will be supplied by Statistics Canada.</p> <p>The search component utilized within the application could be a component of the mapping software or could be a component outside of the map that calls the mapping application.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to be able to search for various areas of interest using search criteria such as a., b., or c. above as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to be able to search for various areas of interest using search criteria such as a., b., or c. above then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to be able to search for various areas of interest using search criteria such as a., b., or c. above then assign "does not meet".</p>
SB-104	<p><u>END-USER Search Suggestions Functionality Requirement</u></p> <p>The <i>SOLUTION</i> must provide <i>END-USERS</i> with a list of suggestions within 1 second, when <i>END-USERS</i> enter information into the search box.</p> <p>The list must allow for a display window that can accommodate a minimum of 10 suggestions based on spelling matches.</p> <p>When more than 10 suggestions exist, the <i>SOLUTION</i> must allow the <i>END-USER</i> to either scroll through the list or provide the <i>END-USER</i> a facility to explicitly request them to be displayed.</p> <p>If nothing is found, the <i>END-USER</i> must be provided with a message indicating "No results found".</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to provide <i>END-USERS</i> with a list of suggestions within 1 second of entering information into the search box as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to provide <i>END-USERS</i> with a list of suggestions within 1 second of entering information into the search box then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to provide <i>END-USERS</i> with a list of suggestions within 1 second of entering information into the search box then assign "does not meet".</p>

ID	Solution Based Search Functionality Requirements
SB-105	<p><u>END-USER Similar Name Search Functionality Requirement</u></p> <p>The <i>SOLUTION</i> must support the functionality to search for similar sounding names. A search feature must be capable of searching indices of names using a phonetic algorithm.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to search for similar sounding names as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability search for similar sounding names then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability search for similar sounding names then assign "does not meet".</p>
SB-106	<p><u>END-USER Search Location Functionality Requirement</u></p> <p>After an <i>END-USER</i> selects a record from the list of suggestions provided in SB-104, or hits return after typing in the search box, the <i>SOLUTION</i> must zoom the map to the selected or found location and display a symbol, like a pin, indicating the zoomed to location on the map.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to zoom to the selected record from the list of suggestions and display a symbol, indicating the zoomed to location on the map as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to zoom to the selected record from the list of suggestions and display a symbol, like a pin, indicating the zoomed to location on the map then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to zoom to the selected record from the list of suggestions and display a symbol, like a pin, indicating the zoomed to location on the map then assign "does not meet".</p>

5.4.1.21 Solution Based Export Functionality Requirements

ID	Solution Based Export Functionality Requirements
SB-107	<p><u>END-USER Image Saving Functionality Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>END-USERS</i> to selectively pick graphical <i>DASHBOARD</i> elements (maps, charts, etc.) and save them as .JPG files for the purpose of being utilized in other applications such as documents and social media.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to selectively pick graphical <i>DASHBOARD</i> elements (maps, charts, etc.) and save them as .JPG files as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to selectively pick graphical <i>DASHBOARD</i> elements (maps, charts, etc.) and save them as .JPG files then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to selectively pick graphical <i>DASHBOARD</i> elements (maps, charts, etc.) and save them as .JPG files then assign "does not meet".</p>

ID	Solution Based Export Functionality Requirements
SB-108	<p><u>END-USER Table Exporting Functionality Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>END-USERS</i> to be able to export a table to a file in CSV (Comma Separated Value) format, SCSV (Semi-Colon Separated Value) format, TAB delimited format or SDMX (Statistical Data Metadata Exchange) format.</p> <p>In addition to the data points the information exported must also include all elements of the tables (i.e., column/row names, titles, and footnotes).</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to export a table to a file in CSV, SCSV, TAB delimited or SDMX format as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to export a table to a file in CSV, SCSV, TAB delimited or SDMX format then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to export a table to a file in CSV, SCSV, TAB delimited or SDMX format then assign "does not meet".</p>
SB-109	<p><u>END-USER Image/Links Exporting Functionality Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>END-USERS</i> to export images and/or links to social media.</p> <p>In the case of HTML links, the links must be transferrable and capable of re-creating the <i>END-USERS</i>' customized view.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to export images and/or links to social media as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to export images and/or links to social media then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to export images and/or links to social media then assign "does not meet".</p>
SB-110	<p><u>END-USER Print Functionality Requirement</u></p> <p>The Contractor must configure the <i>SOLUTION</i> to provide the functionality to <i>END-USERS</i> to print exactly what is on screen in a controlled fashion.</p> <p>Controlled in this context refers to the ability to allow for multiple copies or selected information.</p> <p>The Technical Authority will assess compliance of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to print exactly what is on screen in a controlled fashion as part of solution acceptance testing.</p> <p>If the solution acceptance testing results in a successful demonstration of the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to print exactly what is on screen in a controlled fashion then assign "meets".</p> <p>If the solution acceptance testing results do not successfully demonstrate the <i>SOLUTION</i>'s ability to allow <i>END-USERS</i> to print exactly what is on screen in a controlled fashion then assign "does not meet".</p>

6 DELIVERABLES

All deliverables are to be submitted to the Technical Authority on or before the milestone date listed in the tables below.

6.1 Product Deliverables

The Contractor agrees to submit the following deliverables on the milestone dates indicated.

ID	Deliverables	Milestone
D-1	<p><u>Final 2016 Census DASHBOARD Design and Plan</u></p> <p>Final design proposal for the 2016 Census <i>DASHBOARD</i> presentation layer(s) design and plan to be signed off by the Technical Authority. This includes a mock-up of all Census 2016 presentation layer(s).</p>	Due 3 weeks after contract award
D-2	<p><u>Test Cases</u></p> <p>A complete set of test cases that can be used by the Technical Authority in solution acceptance testing. The test cases must cover all requirements. It should identify the set of tests that need to be tested to cover as many aspects of real-life scenarios an <i>END-USER</i> of the <i>SOLUTION</i> would perform. It should also identify the most common tasks and the most complex tasks an average <i>END-USER</i> is expected to undertake.</p>	Due no later than April 3, 2017
D-3	<p><u>Initial Test version for Solution Acceptance Testing</u></p> <p>A production ready bilingual version of the <i>SOLUTION</i> that adheres to all of the features, functionality and specifications outlined within this <i>SRS</i> as well as any enhancements, additions or changes requested during the development of the product. The delivered product will be used to conduct solution acceptance testing. Solution acceptance testing is expected to take 20 working days from time of delivery. If issues are identified during solution acceptance testing the Contractor will have 72 hours to fix any functionality that is not meeting requirements. The Contractor and the Technical Authority may mutually agree to different timelines or an alternate process.</p>	Due no later than April 3, 2017
D-4	<p><u>Full Bilingual Production Version of the SOLUTION</u></p> <p>A production ready bilingual version of the <i>SOLUTION</i> that adheres to all of the features, functionality and specifications outlined within this <i>SRS</i> as well as any enhancements, additions or changes requested during the development of the product. The delivered product must have successfully completed all testing criteria and solution acceptance testing. Acceptance of this version is expected to take 10 working days. If issues are identified during solution acceptance testing the Contractor will have 72 hours to fix any functionality that is not meeting requirements. The Contractor and the Technical Authority may mutually agree to different timelines or an alternate process.</p>	Due no later than May 5, 2017
D-5	<p><u>SOLUTION Generation Components</u></p> <p>Complete copy of all relevant scripts, build routines and particulars that are required to build an executable and fully functional product.</p>	Due no later than July 3, 2017
D-6	<p><u>SOLUTION Custom API Components</u></p> <p>Complete copy of all custom coded APIs developed that are part of the <i>SOLUTION</i>.</p>	Due no later than July 3, 2017
D-7	<p><u>SOLUTION 2016 Census Presentation Layer(s) Coding</u></p> <p>Complete copy of the coding that was developed to create the 2016 Census presentation Layer(s) of the <i>SOLUTION</i>.</p>	Due no later than July 3, 2017
D-8	<p><u>SOLUTION 2016 Census Presentation Layer(s)</u></p> <p>The presentation layer(s) developed for the 2016 Census implementation.</p>	Due no later than April 3, 2017

ID	Deliverables	Milestone
D-9	<u>END-USER Guide and Web Tutorial</u> A bilingual <i>END-USER</i> guide and bilingual web tutorial to instruct <i>END-USERS</i> on the effective use of the <i>SOLUTION</i> .	Due no later than July 3, 2017

6.2 Final Solution Acceptance Process

Statistics Canada's Technical Authority will conduct solution acceptance testing of all delivered components to ensure that the *SOLUTION* meets the detailed requirements. Solution acceptance testing consists of a process of verifying that a *SOLUTION* works. It ensures that the *SOLUTION* will work in real-life scenarios. Solution acceptance testing will be executed against a set of test scenarios.

This testing will be undertaken by the Technical Authority, who will provide a summary of the findings for confirmation to proceed after trial or review. Acceptance testing will first be done on a development environment in the Census Enclave however the final solution acceptance test will occur in the production environment at the Census Enclave in the SSC Enterprise Data Centre. In order to do this the final *SOLUTION* will need to be loaded to the Census Enclave. Once the *SOLUTION* has been successfully loaded final solution acceptance testing will occur. The *SOLUTION* will only be officially accepted once it has successfully completed solution acceptance testing on a version loaded in the Census Enclave.

6.3 Test Data

The Technical Authority will provide to the Contractor test data that can be used in development and testing 30 days after finalization of the data model (Deliverable ID = TD-2).

6.4 Technical Documents and Schedule

For Technical Documents, the process that will be followed is specified in Article 7.26 to this contract. Acceptable formats for technical Documents are MS Word and/or PDF.

ID	Technical Document	Milestone
TD-1	<u>Detailed Project Plan</u> Detailed project plan of activities, timelines and deliverables to be approved by the project authority prior to proceeding with any additional project activities. The plan must also include the level of effort and resources that will undertake the work.	Due 2 weeks after signing of contract
TD-2	<u>Final Data Model</u> A data model diagram, entity relationship diagram and data dictionary defining all tables, layers, attributes, relationships, primary keys and indices.	Due 4 weeks after signing of contract
TD-3	<u>Final system architecture and technology stack diagrams</u> Diagrams that comprise the layers of components or services that are used to deliver the <i>SOLUTION</i> .	Due no later than 4 weeks after contract award
TD-4	<u>Final COTS Documentation</u> A list, per COTS product that is part of the <i>SOLUTION</i> , of available documentation.	Due no later than August 1, 2017

ID	Technical Document	Milestone
TD-5	<u>Build Specification Documentation</u> Complete documentation detailing specifics to the <i>SOLUTION</i> software build environment, build tools and outlining the sequence of steps (with required detail) to build the <i>SOLUTION</i> . This also includes Functional Specifications and Detailed Design Specifications.	Due no later than August 1, 2017
TD-6	<u>API Documentation</u> The documentation may include but is not limited to developers' guide, online help, books, white papers, "How To" online presentations.	Due no later than September 1, 2017
TD-7	<u>SDK Documentation</u> The <i>SDK</i> documentation may include but is not limited to developers' guide, online help, books, white papers, "How To" online presentations.	Due no later than September 1, 2017
TD-8	<u>Configuration guides, developer guides, administration and management guides</u> Guides to aid in future development, how to configure the solution, and how to maintain and control permissions.	Due no later than July 3, 2017
TD-9	<u>Integration and Installation Guide</u> Complete documentation pertaining to the integration and setup of the <i>SOLUTION</i> within the SSC environments. This would be in the form of an integration and installation guide outlining all necessary steps and a checklist.	Due no later than April 3, 2017
TD-10	<u>Knowledge Transfer Plan</u> Delivery and execution of a Knowledge Transfer plan of all relevant detail of the <i>SOLUTION</i> design, development, installation and environment to senior members of the Statistics Canada development team prior to the completion of the project. The plan must be clear, complete in content, as well as address the sharing of information and cover the following areas: <ul style="list-style-type: none"> • Technical use of components and their features • Relationships between components and performance metrics Design approach and best use of components as well as their features.	Due no later than 3 weeks after contract award Execution must be completed by September 1, 2017

ID	Technical Document	Milestone
TD-11	<p><u>Application Testing Strategy Plan and Results</u></p> <p>The Contractor must provide an Application Testing Strategy to test the functionality, the integration and the End-to-End flow of their <i>SOLUTION</i>.</p> <p>Functionality Testing in this context refer to testing the functionality and user friendliness of the <i>SOLUTION</i>. It is performed to verify that the software performs and functions correctly according to the specified requirements and the design specifications.</p> <p>Integration Testing in this context refers to software testing in which multiple units that have already been tested are combined into components and the interface between them is tested. In other words individual software modules are combined and tested as a group.</p> <p>End-to-End Testing in this context refers to testing the flow of the application to ensure it is performing as designed from start to finish, to identify system dependencies and to ensure that the right information is passed between various system components and systems.</p> <p>The testing package must include a suite of repeatable test cases that can be used whenever a change or upgrade is made to the application code, maintenance database schema, and/or layer/table record layouts.</p> <p>The Contractor must also provide the results of his testing for each of the above testing groups. The results must indicate if the functionality has passed or failed testing.</p>	<p>Due no later than January 9, 2017</p> <p>Execution must be completed by April 3, 2017</p>
TD-12	<p><u>Solution Acceptance Testing Strategy</u></p> <p>The Contractor must provide a testing strategy that will assist the Technical Authority in performing the solution acceptance testing.</p> <p>The testing strategy must have sufficient and appropriate detail to guide the subject matter staff in designing and executing the solution acceptance testing.</p> <p>It should identify the set of tests that need to be executed to cover as many aspects of real-life scenarios a <i>GC USER</i> and an <i>END-USER</i> of the system would perform. It should also identify the most common tasks and the most complex tasks an average <i>END-USER</i> is expected to undertake.</p>	<p>Due no later than January 9, 2017</p>

6.5 Reporting Requirements and Meeting

The Contractor will be responsible for all of the activities and deliverables described in this *SRS* and will liaise with the Technical Authority.

The Contractor will be required to perform the following reporting activities to ensure that the overall project is well managed and delivered on schedule.

- Manage and track project issues on a regular basis and remove obstacles to successful project completion.
- Report project progress (in writing) to the project authority on a weekly basis on progress against schedules, budget consumption, testing, status of deliverables and other similar project artefacts.
- Write and submit a status report to the project authority on a mutually agreed upon schedule.
- Maintain overall project documentation for the post-project evaluation.
- Ensure stakeholder(s)' review of implementation plan and approval prior to implementation.
- Manages risks throughout the project life cycle.

- Make formal presentations (includes preparing slides) and product demonstrations as requested by the project authority.
- Conduct regular (at least bi-weekly) project status/quality meetings with team members.

The Contractor must organize a Kick-Off Meeting with the Technical and the Contracting Authorities in the National Capital Region (NCR), within 10 business days from the date of Contract Award. The purpose of the Kick-Off Meeting, at a minimum will be to:

- a. Review the contractual requirements;
- b. Review and clarify, if required, the respective roles and responsibilities of the Contracting Authority, the Technical Authority and of the Contractor to ensure common understanding; and
- c. Discuss the Project Implementation Plan that was proposed as part of the Contractor's bid submission.

The Contractor must prepare and submit the minutes of the meeting within 5 business days to the Contracting Authority for approval. The minutes of the meeting must provide the names of all attendees, a record of discussions and decisions made. Any required changes will be discussed between the Contracting Authority and the Contractor.

The Contractor must organize, schedule and conduct status meetings on a weekly basis with the Technical Authority and the Contracting Authority either in person in the NCR or by conference call throughout the Work. The focus of these meetings must be to update the Technical and the Contracting Authorities on key aspects of the project, including schedule review and project health.

The Contractor must prepare and submit the minutes of the meeting within 5 business days to the Technical Authority, with copy to the Contracting Authority, for concurrence/approval. The minutes of the meeting must provide the names of all attendees, a record of discussions and decisions made. Any required changes will be discussed between the Contracting Authority and the Contractor.

7 OPERATIONS

Statistics Canada is a federal government Agency of approximately 5,500 employees. About 80% of the employees are located at the Agency's Headquarters site at Tunney's Pasture in Ottawa. The remaining 20% are located in nine regional office sites across Canada.

Shared Services Canada has the mandate to support all of Statistics Canada's *IT* infrastructure, excluding application software development. Installation⁸ will be at the Enterprise Data Centre site in Gatineau.

7.1 Location of Work, Work Site and Delivery Point

The Contractor will perform the majority of the Work under this contract at their own premises. Final installation of the *SOLUTION* will take at the Census Enclave in Gatineau, Quebec.

In the event any member of the contracting team is required to work on site, they must abide by the provisions of the Statistics Act. The Statistics Act can be viewed at the following website:

<http://laws-lois.justice.gc.ca/eng/acts/S-19/FullText.html>.

7.2 Language of Work

Any written deliverables are to be in English or French with electronic copies provided in MS Word or PDF, unless specified otherwise by the Technical Authority.

7.3 Statistics Canada Network Policy

Statistics Canada maintains two separate networks. A secure network (Network A) is prohibited from connection to public communications facilities and is permitted to process data that is confidential under the Statistics Act. An accessible network (Network B) permits public access under controlled conditions but there is no processing of confidential data. Both Network A and Network B use Ethernet technology with speeds of 10-100 megabits for users and 100 megabits or 1 gigabit for servers.

⁸ Installation will need to be coordinated with Shared Services Canada

To provide communications services between all Statistics Canada offices across Canada, Statistics Canada maintains a wide area network on both Network A and Network B. On Network A all transmissions are hardware-encrypted. Network B makes extensive use of firewalls and screening routers and has interfaces to external networks such as the Internet and Secure Channel/SCNet. Confidential data may only be transmitted or received on Network B using procedures specifically approved for that purpose (encryption is required). A store-and-forward service for secure transfer of mail and other data between the two networks is provided.

8 DICTIONARY OF TERMS AND ACRONYMS

	Description
<i>API</i>	Application Programming Interfaces
<i>CA</i>	Census Agglomerations
<i>CMA</i>	Census Metropolitan Areas
<i>CODR</i>	Common Output Data Repository
<i>COTS</i>	Commercial of the Shelf
<i>CSD</i>	Census Subdivision
<i>CSS3</i>	Cascading Style Sheets, level 3
<i>DATA VISUALISATION</i>	Refers to the techniques used to communicate data or information by encoding it as visual objects (e.g., points, lines, bars, and symbols) contained in graphics.
<i>DASHBOARD</i>	A dashboard is a visual display of the most important information needed to achieve one or more objectives; consolidated and arranged on a single screen so that the information can be monitored at a glance.
<i>END-USER</i>	A public user (i.e. the general public). The person who uses the <i>SOLUTION</i> . This is contrary to the <i>GC USER</i> who may design, support, maintain and extend the <i>SOLUTION</i> .
<i>FOGS</i>	Focus on Geography Series
<i>GC</i>	Government of Canada
<i>GC USER</i>	Government of Canada personnel that may design, support, maintain and extend the <i>SOLUTION</i> .
<i>GEOGRAPHIC AREA</i>	Refers to a distinct unit from a geographic level. For example the record of Ottawa from the CSD geographic level or the province of Ontario from the Provincial/Territorial level.
<i>GEOGRAPHIC LEVEL</i>	Refers to a level of geography. For example Province/Territory or Census Subdivision (CSD).
<i>GUI</i>	Graphical User Interface
<i>HTML5</i>	Hyper Text Markup Language, Version 5

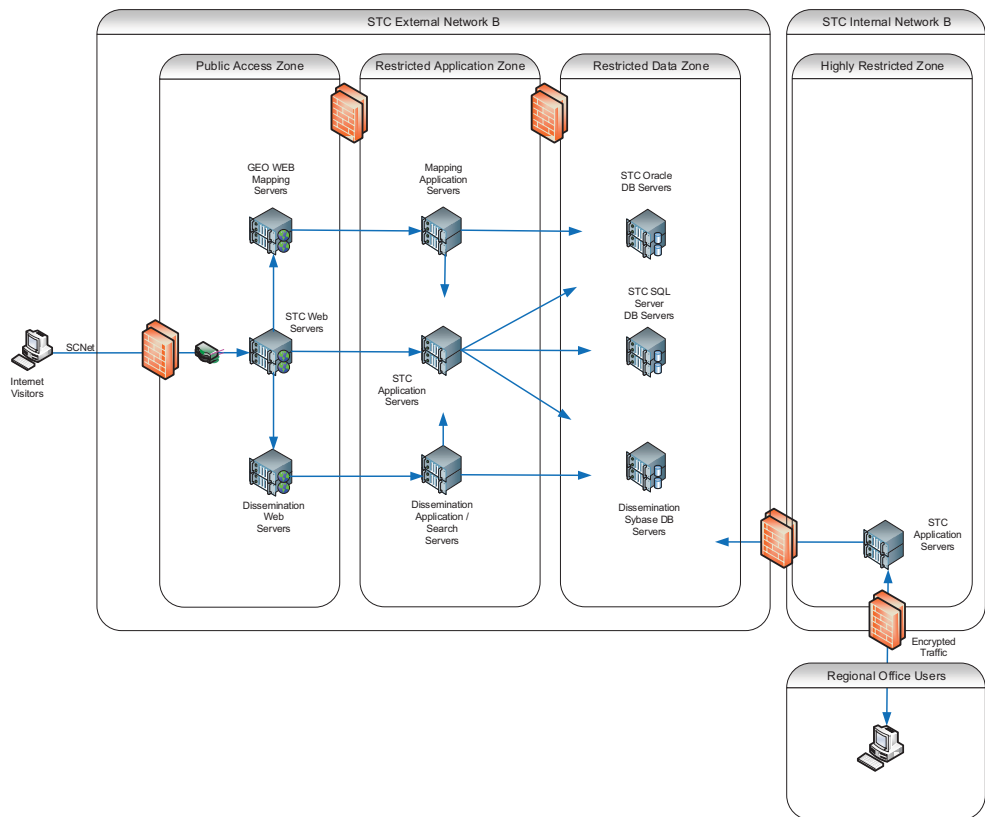
<i>IM</i>	Information Management
<i>IT</i>	Information Technology
<i>INDICATOR</i>	<p>A statistical indicator is the representation of statistical data for a specified time, place or any other relevant characteristic, corrected for at least one dimension (usually size) so as to allow for meaningful comparisons.</p> <p>It is a summary measure related to a key issue or phenomenon and derived from a series of observed facts. Indicators can be used to reveal relative positions or show positive or negative change. They also allow comparisons over time between, for instance, geographic entities.</p>
<i>ITSG-33</i>	Information Technology Security Guidance Publication 33
<i>LDAP</i>	Lightweight Directory Access protocol
<i>RESPONSIVE DESIGN</i>	Responsive design in this context means to provide an optimal viewing and interaction experience that allows for clear reading and intuitive navigation that automatically adjusts based on the <i>END-USERS</i> platform.
<i>REST</i>	Representational State Transfer
<i>RFP</i>	Request for Proposals
<i>SDK</i>	Software Development Kit
<i>SME</i>	Subject-Matter Expert
<i>SOA</i>	Service-Oriented Architecture
<i>SOAP</i>	Simple Object Access Protocol
<i>SOLUTION</i>	A product, combination of products, services, or a mix of products and services that a vendor, service provider or value added reseller will provide to meet the requirements specified in this SRS.
<i>SRS</i>	Software Requirements Specification
<i>SSC</i>	Shared Services Canada
<i>USER</i>	A person who uses or operates something. In this specification it is used when not distinguishing between <i>GC USERS</i> and <i>END-USERS</i> .
<i>UTF</i>	Unicode Transformation Format
<i>WCAG</i>	Web Content Accessibility Guidelines
<i>WS-I</i>	Web Services Interoperability

Appendix A

Network Diagram

The diagram below illustrates the current Statistics Canada Census Enclave Web architecture. Please note some of the component of the current architecture may change, but the overall structure and concept will remain the same.

Census Dissemination System Architecture



The servers in the Census Enclave are 16 or 32 core hosts running VMWare 6.0 u2 or later. Only virtual servers may be deployed. Note: some of the RAM and CPU capacity is consumed by VMWare (approx. 10% however the more VMs on a host, the more VMWare will consume to manage them). They have 128 or 256 GB RAM.

Load balancing of servers using a load balancer such as Big IP F5 is an option.

Redundancy of the back-end data stores are handled as follows:

- Fully redundant Oracle RAC with 2 nodes for the Oracle Database;
- Two (2) load balanced nodes for Sybase;

Use of an active-passive pair with log shipping for SQL Server. Load Balancing of 2 SQL Server setups is also possible if required.

There will be 2 x 100MB connections between the web and application servers and the internet however, it can be increased to 2 x 500 if required.

The chassis' connect to the cisco 5k using 3 x 10 GB links on each side of the chassis. The max bandwidth would be 10 GB.

Appendix B

Statistics Canada Business Intelligence/Analytics and GIS/Mapping Tech stacks

Name: Business Intelligence / Analytics	
Mainstream (Standard/Prescribed)	Emerging (Under Evaluation)
Reports and Dashboards: SAP Business Objects 4.1, SQL Server Reporting Services (SSRS) 2012 OLAP: SQL Server Analysis Services (SSAS) 2012 ETL: SQL Server Integration Services (SSIS) 2012, Stored procedures / SQL Scripts RDBMS OLAP: SAP Business Objects 4.1, Excel 2007, SAS-EG Ad-Hoc Reporting: SAP Business Objects 4.1, SAS-EG ETL Job Management: Batchfiles / SQL Agent Presentation Layer, Excel 2007, SAS-EG	Visualization: SAS Visual Analytics OLAP: SQL Server Analysis Services (SSAS) 2014, SAS OLAP ETL: SQL Server Integration Services (SSIS) 2014, Stored procedures / SQL Scripts Columnar Database: SQL Server 2014 SSAS Tabular, Sybase IQ Pivoting OLAP: Excel 2013 ETL Job Management: \$Universe, PowerShell Data Warehouse: SAP NetWeaver
2 Year Outlook	5 Year Outlook
Reports and Dashboards, Pivoting OLAP, Ad-Hoc Reporting: SAP BusinessObjects 4.x, SAS-EG, Excel 2007/2013, SSRS 2012 OLAP: SQL Server Analysis Services (SSAS) 2014 ETL: SQL Server Integration Services (SSIS) 2014, Stored procedures / SQL Scripts ETL Job Management: \$Universe / Batchfiles / SQL Agent RDBMS: SQL Server 2014	Reports and Dashboards, Pivoting OLAP, Ad-Hoc Reporting: SAP Business Objects vNext, SAS-EG, SSRS vNext OLAP: SQL Server Analysis Services (SSAS) vNext ETL: SQL Server Integration Services (SSIS) vNext, Stored procedures / SQL Scripts ETL Job Management: \$Universe / Batchfiles / SQL Agent RDBMS: SQL Server vNext

Name: GIS Technology Techbrick	
Mainstream (Standard/Prescribed)	Emerging (Under Evaluation)
Desktop GIS: <ul style="list-style-type: none"> • <i>ESRI ArcGIS Desktop 10.2</i> • <i>Safe Software FME 2015</i> • <i>MapInfo Pro v12</i> • <i>PCI Geomatica 2014, 2016</i> Server GIS: <ul style="list-style-type: none"> • <i>ESRI ArcGIS for Server 10.1</i> • <i>ESRI ArcSDE v10.2</i> GIS Api: <ul style="list-style-type: none"> • <i>Esri ArcGIS JavaScript API 3.16</i> • <i>Esri ArcPy 2.7</i> 	Desktop GIS: <ul style="list-style-type: none"> • <i>ESRI ArcGIS Desktop v10.4</i> • <i>ESRI ArcGIS Pro 1.2</i> • <i>ESRI ArcGIS Earth 1.1</i> Server GIS: <ul style="list-style-type: none"> • <i>ESRI ArcGIS Server v10.4</i> • <i>ESRI ArcSDE v10.4</i> • <i>ESRI Portal for ArcGIS 10.4</i> GIS Api: <ul style="list-style-type: none"> • <i>Esri ArcGIS JavaScript API 4.0</i> • <i>Openstreetmap API v0.6</i>
2 Year Outlook	5 Year Outlook
Desktop GIS: <ul style="list-style-type: none"> • <i>ESRI ArcGIS Desktop v10.4 & v10.5</i> • <i>ESRI ArcGIS Pro 1.4</i> • <i>ESRI ArcGIS for Earth 1.4</i> • <i>MapInfo Pro v15.0</i> • <i>Safe Software FME 2015</i> • <i>PCI Geomatica 2017 & 2018</i> Server GIS: <ul style="list-style-type: none"> • <i>ESRI ArcGIS Server v10.4</i> • <i>ESRI Portal for ArcGIS 10.5</i> • <i>ESRI ArcSDE v10.4</i> GIS Api: <ul style="list-style-type: none"> • <i>Esri ArcGIS JavaScript API 4.x</i> • <i>Esri ArcPy 2.8</i> 	Desktop GIS: <ul style="list-style-type: none"> • <i>ESRI ArcGIS Desktop 10.5 +</i> • <i>ESRI ArcGIS Pro 2 +</i> • <i>ESRI ArcGIS for Earth 2 +</i> • <i>MapInfo Pro 16 +</i> • <i>Safe Software FME 2018+</i> • <i>PCI Geomatica 2018+</i> Server GIS: <ul style="list-style-type: none"> • <i>ESRI ArcGIS Server 10.5+</i> • <i>ESRI Portal for ArcGIS 10.5+</i> • <i>ESRI ArcSDE 10.5+</i> GIS Api: <ul style="list-style-type: none"> • <i>Esri ArcGIS JavaScript API 5+</i> • <i>Esri ArcPy 3.0+</i>

Appendix C

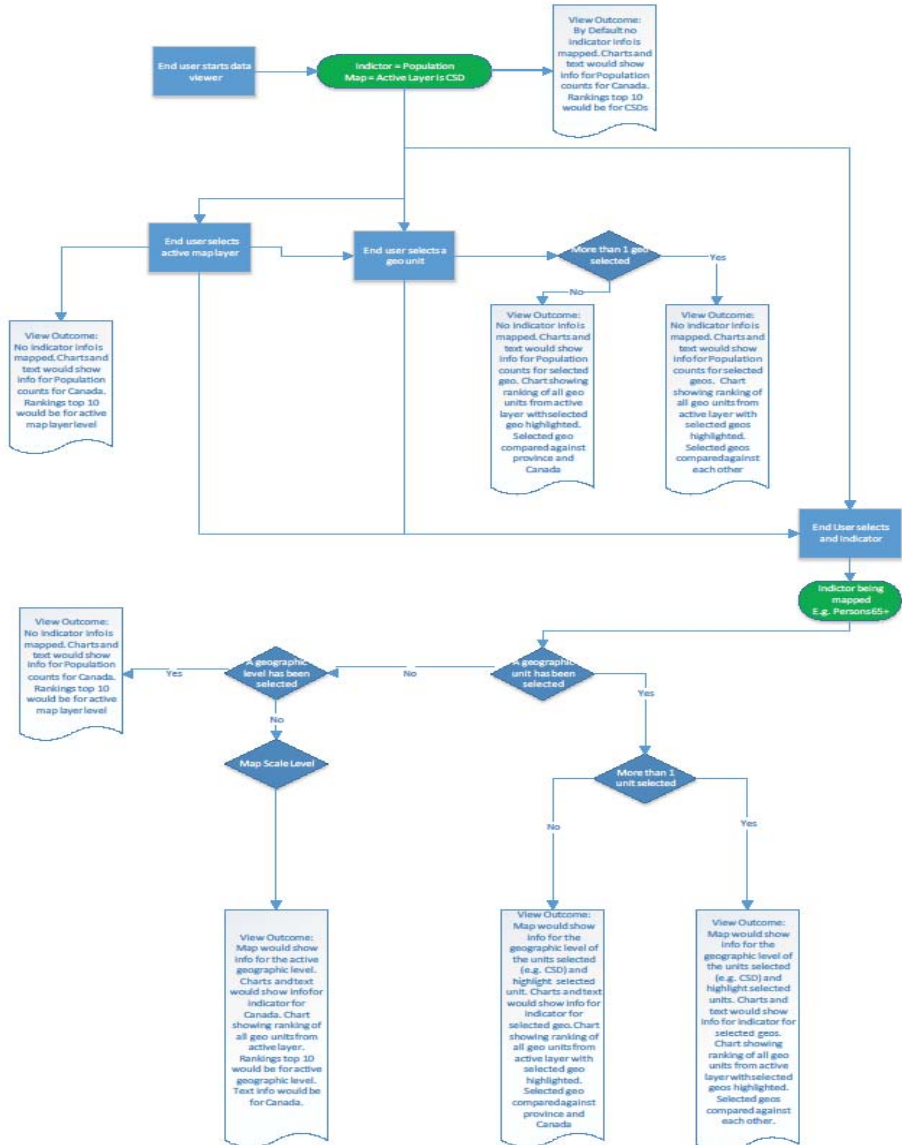
Information Technology Security Guidance – ITSG33	
Control ID	Name / Class
AC-8	System Use Notification / Technical <ul style="list-style-type: none"> Display an approved system use notification message or banner before granting access to the system.
AC-10	Concurrent Session Control/ Technical <ul style="list-style-type: none"> Limit the number of concurrent sessions for a particular user account or process.
AC-21	User-Based Collaboration and Information Sharing / Technical <ul style="list-style-type: none"> Enabling authorized users to determine whether access authorizations assigned to the partners match the access restriction on the information.
AC-22	Publicly Accessible Content / Technical <ul style="list-style-type: none"> Ensuring to designate authorized individuals to post information onto STATISTICS CANADA information systems that is publicly accessible. Ensuring that publicly accessible information does not contain confidentially sensitive information. Reviewing the content, for confidentially, of sensitive information of publicly accessible STATISTICS CANADA information systems prior to posting.
AC-2	Account Management/Technical <ul style="list-style-type: none"> Define account types are used by the information systems Establishing the conditions for group membership. Identifying authorized users of the information systems and specifying access privileges. Requiring appropriate approvals for request to establish accounts. Establishing, activating, modifying, disabling, and removing accounts. Authorizing and monitoring the use of guest and anonymous and temporary accounts. Notifying account managers when temporary accounts are no longer required and when information system users are terminated / transferred, or information system usage or need-to-know/need-to-share changes. Granting access to the system based on valid access authorization, intended system usage.
AC-3	Access Enforcement/Technical The information system controls access between users / processes and objects by the following access enforcement mechanisms: <ul style="list-style-type: none"> Access control lists Access control matrices Cryptography Other, specify:
AC-4	Information Flow Enforcement/Technical The information system enforces approved authorizations for controlling the flow of information within the system and between interconnected systems in accordance with STATISTICS CANADA policy.
AC-5	Separation of duties/Technical In order to prevent malevolent activity without collusion, mission functions must be divided among: <ul style="list-style-type: none"> Different individuals /roles Different administrator accounts for different roles.
AC-6	Least Privilege /Technical The objective of this control is to ensure that only the minimum rights should be assigned to a subject that requests access to a resource. The implementation of this control requires: <ul style="list-style-type: none"> Users of information systems are only allowed necessary and authorized access to accomplish assigned tasks. Day-to-day users are not authorized to access super user and administration accounts. Users do not have access to security settings and auditing and logging facilities.
AC-7	Unsuccessful Login Attempts /Technical <ul style="list-style-type: none"> The information system enforces the maximum number of consecutive invalid login attempts to the information system by a user and the time period in which the consecutive invalid attempts occur. The information system locks account (e.g., privilege account) until released when the maximum number of unsuccessful attempts is exceeded
AC-17	Remote Access/ Technical <ul style="list-style-type: none"> All allowed methods of remote access to an information system are documented (e.g., dial-up, broadband, wireless, virtual private network). Remote access to an information system is authorized prior to connection.

Information Technology Security Guidance – ITSG33	
Control ID	Name / Class
	<ul style="list-style-type: none"> STATISTICS CANADA requirements (policy) for the remote connection to the information systems are enforced. Ensure that all employees working off site safeguard information as per minimum requirement in accordance with TBS operational security standards on Physical Security and STATISTICS CANADA IT security policy. The information system monitors the unauthorized remote accesses. The information system employs automated mechanisms to facilitate the monitoring and the control of remote access. The information system uses cryptography to protect the confidentiality and the integrity of all remote access sessions. Remote access should be routed through the limited number of managed access control points. A remote access to privileged accounts should be performed on dedicated management console used exclusively for this purpose.
AC-18	<p>Wireless Access / Technical</p> <ul style="list-style-type: none"> The usage restrictions and implementation guidance for wireless access is established. The wireless access is authorized prior connection to the information systems. The unauthorized wireless accesses to the information system are monitored for. Requirements for the wireless access to the information systems are enforced (e.g., IT security policy). All the wireless access should be routed through the limited number of managed access control points. The information system protects wireless access to the systems using authentication and encryption.
AC-19	<p>Access Control for Mobile devices / Technical</p> <ul style="list-style-type: none"> Mobile devices connected to information systems should meet the following usage restrictions and implementation guidance: Configuration management. Device Identification and authentication. Implementation of mandatory protective software (e.g., malicious code detection, firewall). Scanning devices for malicious code. Operating system Integrity check. Disabling unnecessary hardware (e.g., wireless, infrared). Unauthorized connections of mobile devices to information systems are monitored. Automatic execution of code is disabled on mobile devices. Specially configured mobile devices are issued to individuals travelling to locations that STATISTICS CANADA deems to be of significant risk.
AU-2	<p>Auditable Events / Technical</p> <ul style="list-style-type: none"> Events for audit logging have been identified for servers. Events for audit logging have been identified for application and database. Events for audit logging have been identified for network. System is capable of auditing pre-defined set of events.
AU-3	<p>Contents of Audit Record / Technical</p> <p>Audit events are in place to associate an individual identity.</p> <p>Following elements are identified within each audit record for the event:</p> <ul style="list-style-type: none"> Date and time Software and/or hardware component Source (network, console) Identity (user, device, etc.) Outcome (success or failure)
AU-4	<p>Audit Storage Capacity / Technical</p> <ul style="list-style-type: none"> Allocation of sufficient storage capacity for audit records. Configuration of audit record storage capacity to prevent from exceeding the capacity.
AU-6	<p>Audit Review, Analysis, and Reporting / Technical</p> <ul style="list-style-type: none"> Review and analyze information system audit records for indication of inappropriate or unusual activity and report findings. Adjust the level of audit review, analysis, and reporting within the information system when there is a change in risk.
AU-12	<p>Audit Generation / Technical</p> <ul style="list-style-type: none"> System can generate audit records for the set of events listed in AU-2 and contents in AU-3. Audit records are time correlated and available in standard and/or common format.
IA-2	<p>Identification and Authentication (Organizational Users) / Technical</p>

Information Technology Security Guidance – ITSG33	
Control ID	Name / Class
	<p>The information system uniquely identifies and authenticates organizational users or processes acting on behalf of users:</p> <ul style="list-style-type: none"> Employees, deemed employees (contractors, guest researchers) Unique identification of users in group accounts (shared privilege accounts) for detailed accountability of activity. <p>Authentication of user identities is accomplished through the use of:</p> <ul style="list-style-type: none"> Passwords Tokens Biometrics Multifactor authentication <p>Identification and authentication mechanisms are employed at the information system level, and at the application level by:</p> <ul style="list-style-type: none"> Using multifactor authentication for network access to privileged accounts. Using multifactor authentication for network access to non-privileged accounts.
IA-5	<p>Authenticator Management / Technical</p> <p>The information system authenticator for users and devices is managed by:</p> <ul style="list-style-type: none"> Verifying, as part of the initial authenticator distribution, the identity of the user or device receiving the authenticator. Establishing initial authenticator content for authenticators defined by STATISTICS CANADA. Ensuring that authenticators have sufficient strength of mechanism for their intended use. Changing default content of authenticators upon information system installation. Establishing minimum and maximum lifetime restrictions and reuse conditions for authenticators (if appropriate). Changing/refreshing authenticators within a predefined time period. Protecting authenticator content from unauthorized disclosure and modification. Requiring users to take, and having devices implement, specific measures to safeguard authenticators. Establishing and implementing administrative procedures for initial authenticator distribution, for lost/compromised or damaged authenticators, and for revoking authenticators. <p>To safeguard user authenticators, following measures are included:</p> <ul style="list-style-type: none"> Maintaining possession of individual authenticators, not loaning or sharing with others. Reporting lost or compromised authenticators immediately. Issuing and revoking authenticators for temporary access such as that required for remote maintenance. <p>To protect user authenticators stored within the information system:</p> <ul style="list-style-type: none"> Password stored in a hashed or encrypted format. Files containing encrypted or hashed passwords accessible only with super user privileges. <p>For information system with password-based authentication:</p> <ul style="list-style-type: none"> Enforces minimum password complexity and minimum/maximum lifetime restrictions as outlined in STATISTICS CANADA security policy. Encrypts passwords in storage and in transmission. <p>For information system with PKI-based authentication:</p> <ul style="list-style-type: none"> Validates certificates by CRL (certificate revocation lists) or Online certificate status protocol responses. Enforces authorized access to the corresponding private key.
IA-6	<p>Authenticator Feedback / Technical</p> <p>The information system obscures feedback of authentication information during the authentication process by:</p> <ul style="list-style-type: none"> Displaying asterisks when a user types in a password. Using other means, please specify:
SC-2	<p>Application Partitioning / Technical</p> <ul style="list-style-type: none"> The information system separates user functionality (including user interface services) from information system management functionality. The information system physically or logically separates user interface services (e.g., public web pages) from information storage and management services (e.g., database management). The information prevents the presentation of information system management-related functionality at an interface for general (i.e. non-privileged) users.
SC-5	Denial of service / Technical

Information Technology Security Guidance – ITSG33	
Control ID	Name / Class
	The information system protects against or limits the effect of denial of service.
SC-7	Boundary Protection / Technical The information system monitors and controls communications at the external boundary of the system and at key boundaries within the system. The information system connects to external networks or information systems only through managed interfaces.
SC-8	Transmission Integrity / Technical Integrity of transmitted information is protected by: <ul style="list-style-type: none"> Using of cryptography. The cryptography must be compliant with the requirements of control SC-13. Other means, please specify
SC-9	Transmission Confidentiality / Technical Confidentiality (to prevent unauthorized disclosure) of transmitted information is protected by: <ul style="list-style-type: none"> Using of cryptography. The cryptography must be compliant with the requirements of control SC-13 Physically protecting information systems (e.g., media protection, locked containers). Other means, please specify:
SC-12	Cryptographic key establishment and Management / Technical Cryptographic <i>SOLUTION</i> has been implemented for the information system. Cryptographic keys (symmetric and/or asymmetric) are produced, controlled, and distributed within STATISTICS CANADA.
SC-13	Use of Cryptography / Technical CSEC approved cryptography is in place for classified data. <ul style="list-style-type: none"> Cryptographic keys (symmetric and/or asymmetric) are produced, controlled, and distributed within STATISTICS CANADA. Above mentioned keys are using CESC approved key management technology and processes. (e.g., CSEC ITSA 11E).
SC-14	Public Access Protections / Technical Mechanisms are in place to address the integrity and availability of publicly available information and application.
SC-18	Mobile Code / Technical Acceptable mobile code and mobile code technologies have been defined. <ul style="list-style-type: none"> Usage restriction and implementation guidance for acceptable mobile code has been established. Above is maintained via authorization, monitoring, and controlling the usage of the mobile code.
SC-23	Session Authenticity / Technical This control focus on communication protection at session level. System provides mechanism, include but not limited to the following, to protect the authenticity of the communication sessions: <ul style="list-style-type: none"> VPNs TLS/SSL Digital signatures Digital certificates CSEC approved encryption requirements and technology (refer to SC-13)
SC-24	Fail in known State / Technical Mechanisms are in place in order to ensure that systems fail in a consistent and secure state. System state information should be preserved in the event of a system failure.
SC-28	Protection of Information at Rest / Technical Mechanisms are in place so that the system protects the confidentiality and integrity of information at rest.

Appendix D



ANNEX B
BASIS OF PAYMENT

Table 01 – Core Work:

CLIN	Description	Firm Price
01	Core Work	<u><i>As per Bidder's proposal</i></u>

Table 02 – Maintenance and Support for Licensed Software *SOLUTION* for the initial Contract Period:

CLIN	Description	Firm Price
02	Maintenance and Support for Licensed <i>SOLUTION</i> for fifty (50) GC <i>USERS</i> for the initial Contract Period	<u><i>As per Bidder's proposal</i></u>

Table 03 – Optional Maintenance and Support for Licensed Software *SOLUTION*:

CLIN	Description	Firm Price
03A	Year 1 Optional Maintenance and Support Services for Licensed Software <i>SOLUTION</i> for fifty (50) GC <i>USERS</i>	<u><i>As per Bidder's proposal</i></u>
03B	Year 2 Optional Maintenance and Support Services for Licensed Software <i>SOLUTION</i> for fifty (50) GC <i>USERS</i>	<u><i>As per Bidder's proposal</i></u>
03C	Year 3 Optional Maintenance and Support Services for Licensed Software <i>SOLUTION</i> for fifty (50) GC <i>USERS</i>	<u><i>As per Bidder's proposal</i></u>
03D	Year 4 Optional Maintenance and Support Services for Licensed Software <i>SOLUTION</i> for fifty (50) GC <i>USERS</i>	<u><i>As per Bidder's proposal</i></u>
03E	Year 5 Optional Maintenance and Support Services for Licensed Software <i>SOLUTION</i> for fifty (50) GC <i>USERS</i>	<u><i>As per Bidder's proposal</i></u>

Table 04 – Option to add GC User(s) to the Licensed Software *SOLUTION*:

CLIN	Firm Price per Each Additional GC <i>USER</i>	Maximum number of Additional GC <i>USERS</i> up to	Extended Firm Price
04	<u><i>As per Bidder's proposal</i></u>	50	

Table 05 - Optional *SOLUTION*'s Software Support for Additional GC User(s):

CLIN	Optional Contract Year	Firm Price per GC <i>USER</i>	Number of Additional GC <i>USER</i> Required	Number of months	Extended Firm Price
04A	Year 1	<u><i>As per Bidder's proposal</i></u>			
04B	Year 2	<u><i>As per Bidder's proposal</i></u>			
04C	Year 3	<u><i>As per Bidder's proposal</i></u>			
04D	Year 4	<u><i>As per Bidder's proposal</i></u>			
04E	Year 5	<u><i>As per Bidder's proposal</i></u>			

Table 06 - Per Diem Rates for Professional Services provided under a Task Authorization:

(Note: the Per Diem Rates table will be populated as per Bidder's proposal)

Labour Category	Per Diem Rates per Contract Year					
	Initial Contract Period	Optional				
		Year 1	Year 2	Year 3	Year 4	Year 5
Project Manager						
Quality Assurance Manager (includes testing specialist)						
Database Administrator/architect						
Software Specialist						
Developer						
Graphic Designer						
Data Visualization expert						
Cartographer						
System Architect						

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ANNEX C

TASK AUTHORIZATION

ADDITIONAL WORK REQUIREMENTS (AWRs)

APPENDIX A TO ANNEX C

TASK AUTHORIZATION (TA) FORM				
Contractor:		Contract Number:		
Commitment: #		Financial Coding:		
AWR Task Number (Amendment):		Issue Date:	Response Require By:	
1. Statement of Work (Work Activities, Certifications and Deliverables)				
See attached for Statement of Work and Certifications required.				
2. Period of Service:	From (Date)		To (Date)	
3. Work Location:				
4. Travel Requirements:				
5. Language Requirement:				
6. Other Conditions/Constraints:				
7. Level of Security Clearance required for the Contractor Personnel:				
8. Contractor's Response:				
Category and Name of Proposed Resource	PWGSC Security File Number	Per Diem Rate	Estimated # of Days	Total Cost
Estimated Cost				
Applicable Taxes				
Total Labour Cost				
Total Travel & Living Cost				

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TASK AUTHORIZATION (TA) FORM	
Firm Price or Maximum TA Price	
Contractor's Signature	
Name, Title and Signature of Individual Authorized to sign on behalf of the Contractor (type or print) _____	Signature: _____ Date: _____
Approval – Signing Authority	
Signatures (Client) Name, Title and Signature of Individual Authorized to sign: Client Administrative Contact: _____ Date: _____	Signatures (PWGSC) Contracting Authority ¹ : _____ Date: _____
¹ Signature required for TA valued at \$25,000 or more, Applicable Taxes included.	
You are requested 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 services listed herein and in any attached sheets at the price set out thereof.	

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APPENDIX B TO ANNEX C
RECORD OF AUTHORIZED AWRs

The accepted and authorized AWRs Task Authorizations under this Contract are listed below:

Annex D – SUPPLY CHAIN SECURITY INFORMATION ASSESSMENT PROCESS

1. **Condition of Contract Award:** In order to be awarded a contract, the Bidder must successfully complete the Supply Chain Security Information (SCSI) assessment process and not be disqualified.
2. **Definitions:** The following words and expressions used with respect to SCSI assessment have the following meanings:
 - a. **“Product”** means any hardware that operates at the data link layer of the Open Systems Interconnection model (OSI Model) Layer 2 and above; any software; and any Workplace Technology Device;
 - b. **“Workplace Technology Device”** means any desktop, mobile workstation (such as a laptop or tablet), smart phone, or phone, as well as any peripheral item or accessory such as a monitor, keyboard, computer mouse, audio device or external or internal storage device such as a USB flash drive, memory card, external hard drive or writable CDs and DVDs or other media;
 - c. **“Product Manufacturer”** means the entity that assembles the component parts to manufacture the final Product;
 - d. **“Software Publisher”** means the owner of the copyright of the software, who has the right to license (and authorize others to license/sub-license) its software products;
 - e. **“Canada’s Data”** means any data originating from the Work, any data received in contribution to the Work or any data that is generated as a result of the delivery of security, configuration, operations, administration and management services, together with any data that would be transported or stored by the contractor or any subcontractor as a result of performing the Work under any resulting contract; and
 - f. **“Work”** means all the activities, services, goods, equipment, matters and things required to be done, delivered or performed by the contractor under any resulting contract.
 - g. **Supply Chain Scope Diagram:** A supply chain scope diagram is provided as Appendix B to Annex D to provide a visual representation of the SCSI submission and assessment requirements described in further detail below. In the case of a discrepancy between the diagram and the process described in this document, this document will prevail.
3. **Bid Submission Requirements** (Mandatory at Bid Closing):

Bidders must submit with their bids, by the closing date, the following:

- a. **IT Product List:** Bidders must identify the Products over which Canada’s Data would be transmitted and/or on which Canada’s Data would be stored, or that would be used and/or installed by the Bidder or any of its subcontractors to perform any part of the Work, together with the following information regarding each Product:
 - i. **Location:** identify where each Product is interconnected with any given network for Canada’s Data (identify the service delivery points or nodes, such as points of presence, third party locations, data centre facilities, operations centre, security operations centre, internet or other public network peering points, etc.);
 - ii. **Product Type:** identify the generally recognized description used by industry such as hardware, software, etc.; components of an assembled Product, such as module or card assembly, must be provided for all layer 3 internetworking devices;

- iii. **IT Component:** identify the generally recognized description used by industry such as firewall router, switch, server, security appliance, etc.;
- iv. **Product Model Name or Number:** identify the advertised name or number of the Product assigned to it by the Product Manufacturer;
- v. **Description and Purpose of the Product:** identify the advertised description or purpose by the Product Manufacturer of the Product and the intended usage or role in the Work described for the Project;
- vi. **Source:** identify the Product Manufacturer and/or Software Publisher of embedded components;
- vii. **Name of Subcontractor:** identify all subcontractors. In the “**Supply Chain Security Information Assessment Process Form**” provided with this bid solicitation at Appendix A of Annex D, “Name of Subcontractor” refers to any subcontractor that will provide, install or maintain one or more Products, if the Bidder would not do so itself, as further defined below.

Submitting the information set out above is mandatory. Canada requests that bidders provide the IT Product List information by using the Supply Chain Security Information Assessment Process Form, but the form in which the information is submitted is not itself mandatory. Canada also requests that, on each page, bidders indicate their legal name and insert a page number as well as the total number of pages. Canada further requests that Bidders insert a separate row in the SCSI Submission Form for each Product. Finally, Canada requests that Bidders not repeat multiple iterations of the same Product (e.g., if the serial number and/or the color is the only difference between two Products, they will be treated as the same Product for the purposes of SCSI).

- b. **Network Diagrams:** one or more conceptual network diagrams that collectively show the complete network proposed to be used to perform the Work described in this bid solicitation. The network diagrams are only required to include portions of the Bidder's network (and its subcontractors' networks) over which Canada's Data would be transmitted in performing any resulting contract. As a minimum, the diagram must show:
 - i. the following key nodes for the delivery of the services under any resulting contract:
 - 1. service delivery points;
 - 2. core network; and
 - 3. subcontractor network(s) (specifying the name of the subcontractor as listed in the List of Subcontractors);
 - ii. the node interconnections, if applicable;
 - iii. any node connections with the Internet; and
 - iv. for each node, a cross-reference to the Product that will be deployed within that node, using the line item number from the IT Product List.
- c. **List of Subcontractors:** The Bidder must provide a list of any subcontractors that could be used to perform any part of the Work (including subcontractors affiliated or otherwise related to the Bidder) pursuant to any resulting contract. The list must include at a minimum:
 - i. the name of the subcontractor;
 - ii. the address of the subcontractor's headquarters;
 - iii. the portion of the Work that would be performed by the subcontractor; and
 - iv. the location(s) where the subcontractor would perform the Work.

This list must identify all third parties who may perform any part of the Work, whether they would be subcontractors to the Bidder, or subcontractors to subcontractors of the Bidder down the chain. This means that every subcontractor that could have access to Canada's Data or would be responsible either for transporting it or for storing it must be identified. Subcontractors would also include, for example, technicians who might be deployed to maintain the Bidder's solution. For the purposes of this requirement, a third party who is merely a supplier of goods to the Bidder, but who does not perform any portion of the Work, is not considered to be a subcontractor. If the Bidder does not plan to use any subcontractors to perform any part of the Work, Canada requests that the Bidder indicate this in its bid.

4. Assessment of Supply Chain Security Information:

- a. Canada will assess whether, in its opinion, the SCSI creates the possibility that the top-ranked Bidder's solution could compromise or be used to compromise the security of Canada's equipment, firmware, software, systems or information.
- b. In conducting its assessment:
 - i. Canada may request from the Bidder any additional information that Canada requires to conduct a complete security assessment of the SCSI. The Bidder will have 2 working days (or a longer period if specified in writing by Canada) to provide the necessary information to Canada. Failure to meet this deadline will result in the bid being disqualified.
 - ii. Canada may use any government resources or consultants to conduct the assessment and may contact third parties to obtain further information. Canada may use any information, whether it is included in the bid or comes from another source, that Canada considers advisable to conduct a comprehensive assessment of the SCSI.
- c. If, in Canada's opinion, there is a possibility that any aspect of the SCSI, if used by Canada, could compromise or be used to compromise the security of Canada's equipment, firmware, software, systems or information:
 - i. Canada will notify the Bidder in writing (sent by email) and identify which aspect(s) of the SCSI is subject to concern(s) or cannot be assessed (for example, proposed future releases of products cannot be assessed). Any further information that Canada might be able to provide to the Bidder regarding its concerns will be determined based on the nature of the concerns. In some situations, for reasons of national security, it may not be possible for Canada to provide further information to the Bidder; therefore, in some circumstances, the Bidder will not know the underlying reasons for Canada's concerns with respect to a product, subcontractor or other aspect of the Bidder's SCSI. With respect to any concerns, Canada may, in its discretion, identify a potential mitigation measure that the Bidder would be required to implement with respect to any portion of the SCSI if awarded a contract.
 - ii. The notice will provide the Bidder with a minimum of 3 opportunities to submit revised SCSI in order to address Canada's concerns. If Canada has identified a potential mitigation measure that the supplier would be required to implement if awarded a contract, the Respondent must confirm in its revised SCSI whether or not it agrees that any awarded contract will contain additional commitments relating to those mitigation conditions. The first revised SCSI must be submitted within the **10 calendar days** following the day on which Canada's written notification is sent to the Bidder (or a longer period specified in writing by the Contracting Authority). If concerns are identified by Canada regarding the first revised SCSI submitted after bid closing, the second revised SCSI must be submitted within **5 calendar days** (or a

longer period specified in writing by the Contracting Authority). If concerns are identified by Canada regarding the second revised SCSI submitted after bid closing, the third revised SCSI must be submitted within **3 calendar days** (or a longer period specified in writing by the Contracting Authority).

With respect to the revised SCSI submitted each time, the Bidder must indicate in its response whether the revision affects any aspect of its technical bid or certifications. The Bidder will not be permitted to change any price in its bid, but will be permitted to withdraw its bid if it does not wish to honour the pricing as a result of required revisions to the SCSI. Each time the Bidder submits revised SCSI within the allotted time, Canada will perform a further assessment of the revised SCSI and the following will apply:

1. If, in Canada's opinion, there is a possibility that any aspect of the Bidder's revised SCSI could compromise or be used to compromise the security of Canada's equipment, firmware, software, systems or information, the Bidder will be provided with the same type of notice described under paragraph 4.c) above. If, in Canada's opinion, the third post-bid-closing revised SCSI submission still raises concerns, any further opportunities to revise the SCSI will be entirely at the discretion of Canada and the bid may be disqualified by Canada at any time.
 2. If the bid is not disqualified as a result of the assessment of the SCSI (as revised in accordance with the process set out above), after receiving the final revised SCSI, Canada will assess the impact of the collective revisions on the technical bid and certifications to determine whether they affect:
 - a. the Bidder's compliance with the mandatory requirements of the solicitation;
 - b. the Bidder's score under the rated requirements of the solicitation, if any; or
 - c. the Bidder's ranking vis-à-vis other bidders in accordance with the evaluation process described in the solicitation.
 3. If Canada determines that the Bidder remains compliant and that its ranking vis-à-vis other bidders has been unaffected by the revisions to the SCSI submitted after bid closing in accordance with the process described above, the Contracting Authority will recommend the top-ranked bid for contract award, subject to the provisions of the bid solicitation. If Canada's approval is subject to any mitigation measures, no contract will be awarded to the Respondent unless Canada is satisfied that the contract includes additional commitments reflecting the required mitigation measures.
 4. If Canada determines that, as a result of the revisions to the SCSI submitted after bid closing in accordance with the process described above, the Bidder is either no longer compliant or is no longer the top-ranked bidder, Canada will proceed to consider the next-ranked bid for contract award, subject again to the provisions of the solicitation relating to the assessment of the SCSI submitted at bid closing, and to the assessment of any revised SCSI submitted after bid closing in accordance with the above provisions.
- d. By participating in this process, the Bidder acknowledges that the nature of information technology is such that new vulnerabilities, including security vulnerabilities, are constantly being identified. As a result:

- i. a satisfactory assessment does not mean that the same or similar SCSI will be assessed in the same way for future requirements; and
 - ii. during the performance of any contract resulting from this bid solicitation, if Canada has concerns regarding certain products, designs or subcontractors originally included in the SCSI, the terms and conditions of that contract will govern the process for addressing those concerns.
5. By submitting its SCSI, and in consideration of the opportunity to participate in this procurement process, the Bidder agrees to the terms of the following non-disclosure agreement (the “**Non-Disclosure Agreement**”):
 - a. The Bidder agrees to keep confidential and store in a secure location any information it receives from Canada regarding Canada’s assessment of the Bidder’s SCSI (the “**Sensitive Information**”) including, but not limited to, which aspect of the SCSI is subject to concern, and the reasons for Canada’s concerns.
 - b. Sensitive Information includes, but is not limited to, any documents, instructions, guidelines, data, material, advice or any other information whether received orally, in printed form or otherwise, and regardless of whether or not that information is labeled as classified, confidential, proprietary or sensitive.
 - c. The Bidder agrees that it will not reproduce, copy, divulge, release or disclose, in whole or in part, in whatever way or form any Sensitive Information to any person other than a person employed by the Bidder who has a need to know the information and has a security clearance commensurate with the level of Sensitive Information being disclosed, without first receiving the written consent of the Contracting Authority.
 - d. The Bidder agrees to notify the Contracting Authority immediately if any person, other than those permitted by the previous Sub-article, accesses the Sensitive Information at any time.
 - e. The Bidder agrees that a breach of this Non-Disclosure Agreement may result in disqualification of the Bidder at any stage of the procurement process, or immediate termination of a resulting contract or other resulting instrument. The Bidder also acknowledges that a breach of this Non-Disclosure Agreement may result in a review of the Bidder’s security clearance and a review of the Bidder’s status as an eligible bidder for other requirements.
 - f. All Sensitive Information will remain the property of Canada and must be returned to the Contracting Authority or destroyed, at the option of the Contracting Authority, if requested by the Contracting Authority, within 30 days following that request.
 - g. This Non-Disclosure Agreement remains in force indefinitely. If the Bidder wishes to be discharged from its obligations with respect to any records that include the Sensitive Information, the Bidder may return all the records to an appropriate representative of Canada together with a reference to this Non-Disclosure Agreement. In that case, all Sensitive Information known to the Bidder and its personnel (i.e., Sensitive Information that is known, but not committed to writing) would remain subject to this Non-Disclosure Agreement, but there would be no further obligations with respect to the secure storage of the records containing that Sensitive Information (unless the Bidder created new records containing the Sensitive Information). Canada may require that the Bidder provide written confirmation that all hard and soft copies of records that include Sensitive Information have been returned to Canada.

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ID - Id de l'acheteur
017EE
CCC No./N° CCC-FMS No./N° VME

Visually Statistically Intelligent Adaptive Data Viewing Solution

Request for Proposals for Statistic Canada

SUPPLY CHAIN SECURITY INFORMATION ASSESSMENT PROCESS

Appendix A of Annex D

QR / Bidder Name:	
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Title: Visually Statistically Intelligent Adaptive Data Viewing Solution

IT Product List								
Line Item #	Location (a)	Product Type (b)	IT Component (c)	Product Acquisition Date (MM/YYYY or Undetermined future date) (d)	Model Name/ Number (e)	Description and Purpose (f)	Product Manufacturer and/or Software Publisher (g)	Name of Subcontractor (if equipment is being provided by a subcontractor) (h)
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Title: Visually Statistically Intelligent Adaptive Data Viewing Solution

IT Product List								
Line Item #	Location (a)	Product Type (b)	IT Component (c)	Product Acquisition Date (MM/YYYY or Undetermined future date) (d)	Model Name/ Number (e)	Description and Purpose (f)	Product Manufacturer and/or Software Publisher (g)	Name of Subcontractor (if equipment is being provided by a subcontractor) (h)
16								
17								
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31								

Title: Visually Statistically Intelligent Adaptive Data Viewing Solution

IT Product List								
Line Item #	Location (a)	Product Type (b)	IT Component (c)	Product Acquisition Date (MM/YYYY or Undetermined future date) (d)	Model Name/ Number (e)	Description and Purpose (f)	Product Manufacturer and/or Software Publisher (g)	Name of Subcontractor (if equipment is being provided by a subcontractor) (h)
32								
33								
34								
35								
36								
37								

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ID - Id de l'acheteur
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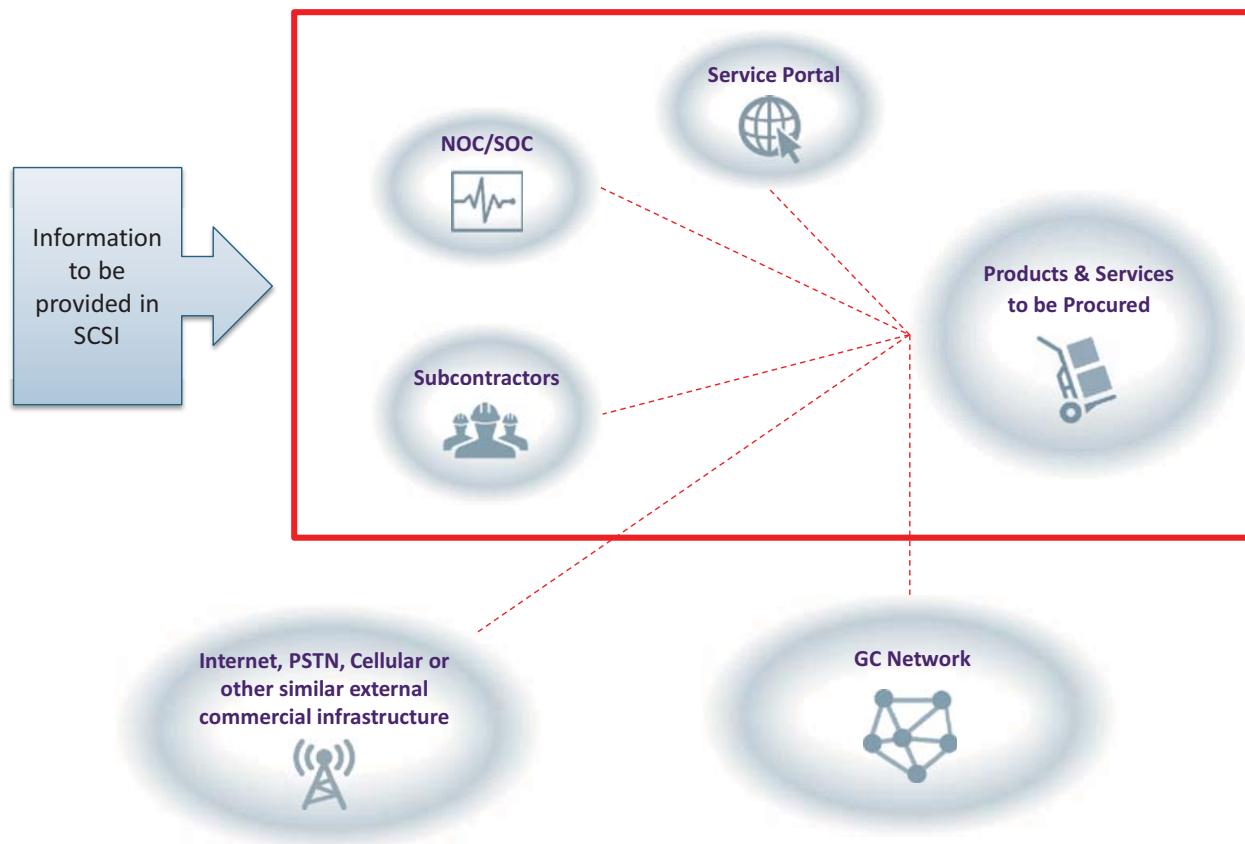
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APPENDIX B to ANNEX D

SCI Scope Diagram Example

SCSI Scope



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ANNEX E

PERFORMANCE GUARANTEE

(to be provided at Contract Award, if required)

Attachment 3.1

BID SUBMISSION FORM		
Bidder's full legal name <i>[Note to Bidders: Bidders who are part of a corporate group should take care to identify the correct corporation as the Bidder.]</i>		
Authorized Representative of Bidder for evaluation purposes (e.g., clarifications)	Name:	
	Title:	
	Address:	
	Telephone #:	
	Fax #:	
	Email:	
Bidder's Procurement Business Number (PBN) <i>[see the Standard Instructions 2003]</i> <i>[Note to Bidders: Please ensure that the PBN you provide matches the legal name under which you have submitted your bid. If it does not, the Bidder will be determined based on the legal name provided, not based on the PBN, and the Bidder will be required to submit the PBN that matches the legal name of the Bidder.]</i>		
Jurisdiction of Contract: Province or Territory in Canada the Bidder wishes to be the legal jurisdiction applicable to any resulting contract (if other than as specified in the solicitation)		
Former Public Servants See the Article in Part 2 of the bid solicitation entitled "Former Public Servant" for a definition of "Former Public Servant".	Is the Bidder a FPS in receipt of a pension as defined in the bid solicitation?	
	Yes ____ No ____	
	If yes, provide the information required by the Article in Part 2 entitled "Former Public Servant "	
	Is the Bidder a FPS who received a lump sum payment under the terms of the terms of the Work Force Adjustment Directive?	
	Yes ____ No ____	
	If yes, provide the information required by the Article in Part 2 entitled "Former Public Servant "	

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BID SUBMISSION FORM		
The <i>SOLUTION</i>'s Software Maintenance and Support:	Toll-free Telephone Access:	
	Toll-Free Fax Access:	
	E-Mail Access:	
	Website address for web support:	
<p>On behalf of the Bidder, by signing below, I confirm that I have read the entire bid solicitation including the documents incorporated by reference into the bid solicitation and I certify that:</p> <ol style="list-style-type: none">1. The Bidder considers itself and its products able to meet all the mandatory requirements described in the bid solicitation;2. This bid is valid for the period requested in the bid solicitation;3. All the information provided in the bid is complete, true and accurate; and4. If the Bidder is awarded a contract, it will accept all the terms and conditions set out in the resulting contract clauses included in the bid solicitation.		
Signature of Authorized Representative of Bidder	<hr/>	

Attachment 3.2

Substantiation of Technical Compliance Form

Article of Statement of Work that requires substantiation by the Bidder	Bidder Substantiation Met/Not Met	Reference to additional Substantiating Materials included in Bid
E-1 DATA VISUALIZATION Experience Requirement		
E-2 Web Mapping Experience Requirement		
E-3 Web Accessibility Experience Requirement		
E-4 Web Usability Experience Requirement		
E-5 Web Interoperability Experience Requirement		
E-6 Experience with Implementation of RESPONSIVE DESIGN on Various User Platforms Requirement		
E-7 Experience with the production of User guides or Web Tutorials		
E-8 Experience with the Performance Response Requirement		
Article of Statement of Work that requires substantiation by the Bidder in order to obtain points	Rated Requirements Met/Not Met	Reference to additional Substantiating Materials included in Bid
R-1 Experience with the Performance Response Requirement		
R- 2 Experience with the production of User guides and Web Tutorials		
R-3 Web content management technology		

R-4 Technology Alignment Requirement		
R-5 Required Infrastructure performance Requirement		
R-6 Spatial Data Tiling Compatibility		
R-7 Data Migration Requirement		
R-8 Services Compatibility Requirement		
R-9 <i>GC USER</i> (designer) Ease of Use Functionality Requirement		
R-10 Overall Design Requirement		
R-11 Cartographic Design Requirement		
R-12 <i>GC USER</i> (designer) Cartographic Design Ease of Use Functionality Requirement		
R-13 <i>INDICATOR</i> Management Requirement		
R-14 <i>END-USER</i> Map Second Predefined List Selection Functionality Requirement		
R-15 <i>END-USER</i> Map Window Splitting Functionality Requirement		
R-16 <i>END-USER</i> Map Swipe Bar Functionality Requirement		
R-17 Development Search Functionality Requirement		

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R-18 Training Functionality Requirement		
R-19 Bidders Understanding		

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Attachment 3.3 FINANCIAL PROPOSAL REQUIREMENTS

The bidder must propose a firm price for each required cell below and in accordance with the RFP requirements and Part 7 - Resulting Contract Clauses.

1. The Bidder must propose a Firm Price for Contract Line Item number (CLIN) 01 - Core Work at table below:

Table 01 – Core Work:

CLIN	Description	Bidder's proposed Firm Price	
01	Core Work	\$0.00	A

2. The Bidder must propose a Firm Price for CLIN 02 - Maintenance and Support for Licensed Software *SOLUTION* for initial period at table below:

Table 02 – Maintenance and Support for Licensed Software *SOLUTION* for initial Contract Period:

CLIN	Description	Bidder's proposed Firm Price	
02	Maintenance and Support for Licensed <i>SOLUTION</i> for fifty (50) <i>GC USER</i> s for the initial Contract Period	\$0.00	B

3. The Bidder must propose a Firm Price for CLIN 03 - Optional Maintenance and Support for Licensed Software *SOLUTION* for each Optional Contract Year at table below:

Table 03 – Optional Maintenance and Support for Licensed Software *Solution* :

CLIN	Description	Bidder's proposed Firm Price for each option year	
03A	Year 1 Optional Maintenance and Support Services for Licensed Software <i>SOLUTION</i> for fifty (50) <i>GC USER</i> s	\$0.00	
03B	Year 2 Optional Maintenance and Support Services for Licensed Software <i>SOLUTION</i> for fifty (50) <i>GC USER</i> s	\$0.00	
03C	Year 3 Optional Maintenance and Support Services for Licensed Software <i>SOLUTION</i> for fifty (50) <i>GC USER</i> s	\$0.00	
03D	Year 4 Optional Maintenance and Support Services for Licensed Software <i>SOLUTION</i> for fifty (50) <i>GC USER</i> s	\$0.00	
03E	Year 5 Optional Maintenance and Support Services for Licensed Software <i>SOLUTION</i> for fifty (50) <i>GC USER</i> s	\$0.00	
Total:		\$0.00	C

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4. The Bidder must propose a Firm Price for CLIN 04 - Optional to add GC User to the Licensed Software Solution for each Contract Year at table below:

Table 04 – Option to add GC User to the Licensed Software Solution :

CLIN	Bidder's proposed Firm Price per Each Additional GC USER	Maximum number of Additional GC USERS up to	Extended Firm Price	
4	\$0.00	50	\$0.00	D

5. The Bidder must propose a Firm Price for CLIN 05 - Optional SOLUTION's Software Support for Additional GC USER(s) for each optional Contract Year at the table below: (the number of additional GC User are only for evaluation purposes)

Table 05 - Optional SOLUTION's Software Support for Additional GC USER(s):

CLIN	Optional Contract Year	Bidder's proposed Firm Price per GC USER	Number of Additional GC USERS Required	Number of months	Extended Firm Price	
05A	Year 1	\$0.00	50	12	\$0.00	
05B	Year 2	\$0.00	50	12	\$0.00	
05C	Year 3	\$0.00	50	12	\$0.00	
05D	Year 4	\$0.00	50	12	\$0.00	
05E	Year 5	\$0.00	50	12	\$0.00	
Total:					\$0.00	E

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6. The Bidder must propose a Firm Per Diem Rate each Labour category for the initial Contract Period for the Optional Contract Year for CLIN 06:

Table 06 - Per Diem Rates for Professional Services provided under a Task Authorization:

Labour Category	Bidder's proposed Per Diem Rates for each Contract Year						Firm
	Initial period	Year 1	Year 2	Year 3	Year 4	Year 5	
Project Manager	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Quality Assurance Manager (includes testing specialist)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Database Administrator / architect	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Software Specialist	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Developer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Graphic Designer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Data Visualization expert	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Cartographer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
System Architect	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

Note to Bidders: The table below will be used to evaluate the Bidder's proposed Per Diem Rates at Table 06. The Number of Days for Task Authorization per contract year is only for evaluation purposes and does not represent an estimation of Task Authorization workload after any resulting contract.

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Number of Days for Task Authorization per contract year		Extended Contract Labour Costs for Bid Evaluation Only (Rates from Table above multiplied by the Workload Hour Forecast per year)					
Labour Category		Initial Period	Year 1	Year 2	Year 3	Year 4	Year 5
Project Manager	10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Quality Assurance Manager (includes testing specialist)	10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Database Administrator / architect	10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Software Specialist	10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Developer	10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Graphic Designer	10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Data Visualization expert	10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Cartographer	10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
System Architect	10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total per Year		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
				F	Total Estimated Costs		\$0.00

5. The Bidder's proposed total bid pricing will be calculated as follows:

A	\$0.00	+	
B	\$0.00	+	
C	\$0.00	+	
D	\$0.00	+	
E	\$0.00	+	
F	\$0.00	=	
Total Bidder's Bid price: \$0.00			

No.	Evaluation Area	Requirement	Bid Submission Requirement	Evaluation Criteria
Attachment 4.1				

Mandatory Requirements

Bidder Experience				
Corporate Mandatory Criteria:				
E1	DATA VISUALIZATION Experience Requirement	The Bidder must have experience with at least 1 previous DATA VISUALIZATION project within the last 5 years.	<p>The Bidder must demonstrate its experience as a prime or sub-contractor implementing and deploying a data visualization project.</p> <p>The description must include:</p> <ul style="list-style-type: none">a. project objectivesb. the goal of the DATA VISUALIZATIONc. project start and end datesd. deliverablese. relevant technical information that would provide additional contextf. a web link to any presentation layer(s). If a web link is not available, the Bidder must provide sufficient details in their explanation and screen captures of any END-USER presentation layer(s).	
E2	Web Mapping Experience Requirement	The Bidder must have experience with at least 1 previous web mapping project within the last 5 years.	<p>The Bidder must demonstrate its experience as a prime or sub-contractor by describing a project that was implemented and deployed.</p> <p>The description must include:</p> <ul style="list-style-type: none">a. project objectivesb. the goal of the web mapping projectc. project start and end datesd. deliverables	

			<p>e. relevant technical information that would provide additional context</p> <p>f. a web link to the web mapping presentation layer(s). If a link is not available the Bidder must provide sufficient details in their explanation and screen captures of any <i>END-USER</i> presentation layer(s).</p>	
E3	Web Accessibility Experience Requirement	The Bidder must have experience with at least 1 previous web application project that has met <u>any</u> Government Web Accessibility Standard. Note the standard is not limited to Canadian federal standards.	<p>The Bidder must demonstrate its experience as a prime or sub-contractor by describing the project that was implemented and deployed.</p> <p>The description must include:</p> <ul style="list-style-type: none"> a. project objectives b. the goal of the web application c. project start and end dates d. deliverables e. relevant technical information that would provide additional context f. a link or description of the standard g. specific things that were done to address web accessibility h. a web link to the web application presentation layer(s). If a link is not available the Bidder must provide sufficient detail in their explanation and screen captures of any <i>END-USER</i> presentation layer(s). 	
E4	Web Usability Experience Requirement	The Bidder must have experience with at least 1 previous web application project that has met <u>any</u> Government Web Usability Standard. Note the standard is not limited to Canadian federal standards.	<p>The Bidder must demonstrate its experience as a prime or sub-contractor by describing the project that was implemented and deployed.</p> <p>The description must include:</p> <ul style="list-style-type: none"> a. project objectivesproject objectives b. the goal of the web application c. project start and end dates d. deliverables 	

			<p>e. relevant technical information that would provide additional context</p> <p>f. a web link or description of the standard</p> <p>g. specific things that were done to address web usability</p> <p>h. a web link to the web application presentation layer(s). If a link is not available the Bidder must provide sufficient detail in their explanation and screen captures of any <i>END-USER</i> presentation layer(s).</p>	
E5	Web Interoperability Experience Requirement	<p>The Bidder must have experience with at least 1 previous web application project that has met <u>any</u> Government Web Interoperability Standard. Note the standard is not limited to Canadian federal standards.</p>	<p>The Bidder must demonstrate its experience as a prime or sub-contractor by describing the project that was implemented and deployed.</p> <p>The description must include:</p> <ul style="list-style-type: none"> a. project objectives b. the goal of the web application c. project start and end dates d. deliverables e. relevant technical information that would provide additional context f. a web link or description of the standard g. specific things that were done to address interoperability h. a web link to the web application presentation layer(s). If a link is not available the Bidder must provide sufficient detail in their explanation and screen captures of any <i>END-USER</i> presentation layer(s). 	
E6	Experience with Implementation of <i>RESPONSIVE DESIGN</i> on Various User Platforms Requirement	<p>The Bidder must have experience in the development and production of a web site or application that employs <i>RESPONSIVE DESIGN</i> techniques so that the presentation layers of the web site or application are optimized for viewing on various <i>END-USER</i></p>	<p>The Bidder must demonstrate its experience as a prime or sub-contractor by describing the project that was implemented and deployed.</p> <p>The description must include:</p> <ul style="list-style-type: none"> a. project objectives b. the goal of the web application c. project start and end dates d. deliverables 	

		platforms (desktop, tablet, mobile telephone).	<p>e. relevant technical information that would provide additional context</p> <p>f. the design decision process employed</p> <p>g. the rationale for any design choices specifically implemented to accommodate different platforms</p> <p>h. a web link to the web site or application presentation layer(s). If a link is not available the Bidder must provide sufficient detail in their explanation and screen captures of any <i>END-USER</i> presentation layer(s).</p>	
E7	Experience with the production of User guides or Web Tutorials	The Bidder must have experience in the development and production of user guide OR web tutorials.	The Bidder must demonstrate its experience as a prime or sub-contractor by providing an example or a web link to a site that has a user guide or a web tutorial that they have produced.	
E8	Experience with the Performance Response Requirement	The Bidder must have experience with at least 1 web application project or web site implementation that has had a similar performance target (see section 5.4.16 of the SRS - Annex A). Similar in this context means at least three thousand (3,000) concurrent <i>END-USERS</i> over the course of a 12 hour period.	<p>The Bidder must demonstrate its experience as a prime or sub-contractor by describing the application or web site that was implemented and deployed.</p> <p>The description must include:</p> <ul style="list-style-type: none"> a. project objectives b. the goal of the web application or web site c. project start and end dates d. any deliverables e. relevant technical information that would provide additional context such as detail on the technical architecture f. the performance target g. a link to the example. If a link is not available the Bidder must provide sufficient details. h. proof of the performance level achieved 	

Point Rated Requirements			
Experience			
R1	Experience with the Performance Response Requirement	<p>The Bidder should have experience with at least 1 web application project or web site implementation that has had the same or a greater performance target (see section 5.4.1.6 of the SRS - Annex A).</p>	<p>The Bidder should clearly demonstrate its experience as a prime or sub-contractor in successfully developing, implementing and deploying an application or web site that met the performance target. The Bidder must describe the project and include the following details in the description:</p> <ul style="list-style-type: none"> a. a description of the project objectives b. the goal of the web application or web site c. project start and end dates d. any deliverables e. relevant technical information that would provide additional context such as detail on the technical architecture f. the performance target g. a link to the example. If a link is not available the Bidder must provide sufficient details. h. proof of the performance level achieved
R2	Experience with the production of User guides and Web Tutorials	<p>The Bidder should have experience in the development and production of both user guides AND web tutorials.</p>	<p>Canada will evaluate if the example provided met the performance target identified.</p> <p>In the event Canada decides to contact a customer reference it will ask questions such as those described below:</p> <ul style="list-style-type: none"> 20 pts – Exceeded the performance target by 2000 concurrent users 10 pts – Exceeded the performance target by 1000 concurrent users 0 pts – Does not exceed the performance target
R3	Web Content Management	<p>The Bidder should use Drupal Ver.7 or higher with PHP scripting for web content management</p>	<p>5 pts – Has experience in both</p> <p>0 pts – No experience in both.</p>
R4	Technology Alignment Requirement	<p>The proposed solution should use software that already exists with the Statistics Canada technology</p>	<p>10 pts – Full integration</p> <p>5 pts – Partial integration</p> <p>0 pts – No integration</p>
R5	Software	<p>The Bidder should provide a list of any software that will be used by the proposed solution.</p>	<p>10 pts – The proposed solution uses at least 1 COTS software from the existing Statistics Canada technology stacks.</p>

		stacks for business intelligence and/or analytics and/or web mapping/GIS. Please refer to Appendix B of the SRS for a listing of technologies with these technology stacks.		0 pts – The proposed solution does not use any COTS software from the existing Statistics Canada technology stacks.
	Infrastructure			
R5	Required Infrastructure Performance Requirement	The proposed solution should use the least amount of <i>CPU</i> cores to achieve the performance target (see section 5.4.1.6 of the SRS Annex A.	The Bidder should provide system architecture design documents and indicate the proposed solution's infrastructure requirements (number of <i>CPU</i> cores).	<p>20 pts – The proposed solution requires 1 to 16 cores</p> <p>15 pts – The <i>SOLUTION</i> requires 17 to 32 cores</p> <p>10 pts – The <i>PROPOSED SOLUTION</i> requires 33 to 48 cores</p> <p>5 pts – The <i>PROPOSED SOLUTION</i> requires 49 to 63 cores</p> <p>0 pts – The <i>SOLUTION</i> requires more than 64 cores</p>
	Performance			
R6	Spatial Data Tiling Compatibility	<p>The <i>SOLUTION</i> should be able to consume ESRI ArcGIS Server tiles 10.1 Services and higher if spatial data tiles are required by the <i>SOLUTION</i> to meet performance targets.</p> <p>An existing spatial tiling services from Statistics Canada is available and can be used to improve performance. ESRI Tiling service specifications:</p> <p>a. Spatial Reference: 3347</p>	<p>The Bidder should demonstrate this by referencing documentation or describing how the performance target can be achieved without the use of spatial data tiles.</p> <p>10 pts – The <i>SOLUTION</i> is able to use ESRI ArcGIS Server tiles 10.1 Services and higher OR does not need to use spatial data tiles to meet the performance targets.</p> <p>0 pts – A different spatial tiling service will be used.</p>	

		<p>b. Single Fused Map Cache: true c. Height: 256 d. Width: 256 e. DPI: 96 f. Format: PNG24</p>		
	Data			
R7	Data Migration Requirement	<p>The <i>SOLUTION</i> should not require Statistics Canada supplied spatial data to be transformed or migrated to another data format.</p> <p>Statistics Canada's spatial geographic data will be available in the ESRI ArcGIS format.</p> <p>The <i>SOLUTION</i> should be able to consume spatial data in 1 of the following spatial file formats:</p> <p>a. ESRI File Geodatabase 10.2 and above AND/OR b. ESRI ArcSDE Geodatabase 10.2 and above AND/OR c. ESRI Shapefile</p> <p>Examples of older versions of the spatial data that could be used can be found at:</p>	<p>The Bidder should document any data migration requirements if required, and provide details as to the level of data transformation, weeding, and cleaning that will be required to present data in a format that meets the requirements and constraints of the software.</p> <p>If no data migration or transformation is required the Bidder must demonstrate this by referencing documentation.</p>	<p>10 pts – The <i>SOLUTION</i> is able to use the spatial data supplied by Statistics Canada without the need for transformations.</p> <p>0 pts – Data transformation or data migration is required.</p>

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	http://www12.statcan.gc.ca/census-recensement/2011/geo/index-eng.cfm Statistics Canada will be responsible for any transformations, weeding and cleaning to be applied to the data. The Bidder must define/supply the migration process if one is required.		
Services			
R8	Services Compatibility Requirement The <i>SOLUTION</i> should be able to consume ESRI ArcGIS for Server dynamic services 10.1 and higher.	The Bidder should clearly demonstrate this by referencing documentation.	5 pts – Met 0 pts – Not Met
Design of the User Interface			
R9	GC <i>USER</i> (designer) Ease of Use Functionality Requirement The <i>SOLUTION</i> should provide the functionality to be able to design and program the presentation layer(s) with 'Ease of Use'. Examples of 'Ease of Use': a. <i>SOLUTION</i> is intuitive in nature for designer to operate and program, having features such as Drag and Drop, Cut and	The Bidder should clearly demonstrate these features by referencing documentation.	Points provided for each of the following: 2.5 pts – Intuitive, Drag/Drop, Cut/Past and Event Driven 2.5 pts – Help Features 2.5 pts – Different mode (basic and advance) 2.5 pts – Simplicity in defining objects and functionality 10 pts maximum

		<p>Paste and is Event driven.</p> <p>b. Help features are simple to access and operate.</p> <p>c. <i>SOLUTION</i> provides a feature for designer to operate in a basic mode or in an advance mode.</p> <p>d. Map, chart, tables and any other <i>DASHBOARD</i> elements and associated functionality as described in the attached <i>SRS</i> are simple to define.</p>		
R10	Overall Design Requirement	<p>The overall design and layout of the <i>SOLUTION</i>'s 2016 presentation layer should be clear and use design features and symbols that are intuitive to <i>END-USERS</i>.</p> <p>Excellence in <i>DATA VISUALIZATION</i> design consists of communicating complex ideas with clarity, precision and efficiency. It should induce the viewer to think about the substance rather than about methodology, graphic design, the technology of graphic</p>	<p>The Bidder should clearly provide a proposal in the form of mock-ups for the design of the <i>END-USER</i> 2016 <i>CENSUS</i> presentation layer based on their understanding of the <i>SOLUTION</i> requirements. The proposal must also demonstrate the impact on the presentation layer(s) of <i>END-USER</i> interaction and operation of the key functions requested.</p> <p>The Bidder will also have the opportunity to describe their overall design in their Management Bid and explain their rationale for the design.</p>	<p>The evaluation team will assign a score from 0 to 60 points based on their assessment of the overall design of the 2016 Census presentation layer(s) and their determination of the overall aesthetic and how easily the <i>SOLUTION</i> communicates statistical information.</p> <p>Based on the Bidders proposal the evaluation team will also determine how easily and efficiently the proposed <i>SOLUTION</i> would enable an end user to answer the following four questions:</p> <ul style="list-style-type: none"> • What are the top 10 ethnic origins reported in different CMAs? • What are the top 10 municipalities where a language other than English or French is spoken most often at home? • How does the average age for my municipality compare to that of the province or that of Canada?

		<p>production or something else.</p> <p>The design of the presentation layer(s) should:</p> <ul style="list-style-type: none">a. Have good contrast, repetition, alignment and proximity between elementsb. Have elements that are well definedc. Have elements that are well populatedd. Have user controls that are easy to understand, interpret and usee. Use a font that is well suited to the applicationf. Avoid distorting what the data has to sayg. Maintain readability while presenting many numbers in a small spaceh. Encourage the eye to compare different pieces of datai. Reveal the data at several levels of detail, from a broad overview to the fine structurej. Provide <i>END-USERS</i> with		<ul style="list-style-type: none">• Is there a relationship between level of education attainment and average income in any given municipality? <p>60 pts – Excellent – Innovative, intuitive, clear display, easy to interpret, easy to make associations between <i>INDICATORS</i>, allows <i>END-USERS</i> to easily answer the 4 questions above</p> <p>45 pts – Very Good – intuitive, clear display, easy to interpret but requires effort to see associations, <i>END-USERS</i> can answer the questions, not necessarily innovative</p> <p>30 pts – Good – Clear display, not intuitive, not innovative, information is not easily accessible, <i>END-USERS</i> can answer questions but takes time and effort</p> <p>15 pts – Poor – Not intuitive, display is not clear, <i>END-USERS</i> cannot answer the questions easily, not innovative</p> <p>0 pts – Not Met – Design does not meet minimum design requirements</p>
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	Information that can be easily identified k. Provide <i>END-USERS</i> with help features that are simple to access Note: The final design and graphics associated with any buttons on the presentation layer(s) will be done collaboratively with Statistics Canada to ensure there is commonality and design coherence with other Statistics Canada web applications that have similar functions. Therefore the graphics associated with button will not be evaluated.		
R11	Cartographic Design Requirement	The cartographic design and selection of symbology of the <i>SOLUTION</i> should follow recognized cartographic principles.	5 pts – Design Proposal follows cartographic principles 0 pts – Design Proposal does not follow cartographic principles
R12	GC <i>USER</i> (designer) Cartographic Design Ease of Use Functionality Requirement	The <i>SOLUTION</i> should allow GC <i>USERS</i> to easily be able to modify the cartographic design and symbology of map features.	5 pts – Met 0 pts – Not Met
INDICATOR Management			
R13	<i>INDICATOR</i> Management Requirement	The <i>SOLUTION</i> should provide a process, mechanism or interface for	15 pts – A <i>GUI</i> is available to manage all the characteristic information

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	<p>Statistics Canada to manage the characteristics associated with <i>INDICATORS</i> and the various <i>DASHBOARD</i> elements.</p> <p>These characteristics will be provided by Statistics Canada once the <i>DASHBOARD</i> design has been finalized.</p> <p>Examples of detail characteristics include, but are not limited to:</p> <ul style="list-style-type: none">a. Types of map and chart to use for each indicatorb. Related <i>INDICATORS</i>c. Theme membershipd. Complimentary chartse. Related graphics and imagesf. Related text (bullets and lists)g. Titles, annotations, labels etc.h. Actions and results expected when an <i>END-USER</i> interacts with <i>DASHBOARD</i> elementsi. Class intervals (map and chart)		<p>10 pts – A <i>GUI</i> is available to manage some characteristics only</p> <p>5 pts – Management of <i>INDICATORS</i> and characteristic information is done via tables and requires manual updating via other mechanism</p> <p>0 pts – Not Met</p>
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	<p>j. Units if applicable (e.g., km, square km etc.)</p> <p>k. Precision</p> <p>l. Zoom level</p> <p>m. Layer visibility</p> <p>n. Symbology</p> <p>GC <i>USERS</i> must be able to save the updates for implementation by the <i>SOLUTION</i> on the web and be able to access them for possible future updates.</p>		
	Map <i>END-USER</i> Functionality		
R14	<p><i>END-USER</i> Map</p> <p>Second Predefined List Selection</p> <p>Functionality Requirement</p>	<p>The <i>SOLUTION</i> should allow <i>END-USERS</i> to select from a second (predefined) list, a set of <i>INDICATORS</i> that can be mapped at the same time as the initial <i>INDICATOR</i> (bivariate mapping). After enabling bivariate mapping the <i>END-USER</i> must be able to return to a univariate map display if they choose (i.e. turn off bivariate map display).</p>	<p>The Bidder should clearly demonstrate this in the form of mock-ups for the design of the presentation layer(s)</p> <p>5 pts – Met</p> <p>0 pts – Not Met</p>
R15	<p><i>END-USER</i> Map</p> <p>Window Splitting</p> <p>Functionality Requirement</p>	<p>The <i>SOLUTION</i> should allow <i>END-USERS</i> to be able to split the map window in two. This will allow the <i>END-USER</i> to see 2 different <i>GEOGRAPHIC AREAS</i> (e.g., Ottawa and Victoria) that are geographically situated far</p>	<p>The Bidder should demonstrate this in their design proposal and/or by referencing documentation.</p> <p>5 pts – Met</p> <p>0 pts – Not Met</p> <p>If this functionality is included in the design proposal the functionality will be tested as part of solution acceptance testing.</p>

		apart at large scales. This will facilitate comparison of <i>INDICATOR</i> information between <i>GEOGRAPHIC AREAS</i> . After enabling this functionality the <i>END-USER</i> must be able to return a single map window if they choose.		
R16	<i>END-USER</i> Map Swipe Bar Functionality Requirement	The <i>SOLUTION</i> should provide <i>END-USERS</i> with the ability to swipe on the maps. This will allow the <i>END-USER</i> to see two different <i>INDICATORS</i> quickly with a "swipe" of the pointing device (e.g., a mouse). <i>THE SOLUTION</i> must allow an <i>END-USER</i> to select a second <i>INDICATOR</i> to be displayed as a result of the "swipe". After enabling this functionality the <i>END-USER</i> must be able to turn the swipe off if they choose.	The Bidder should clearly demonstrate this in their design proposal and/or by referencing documentation.	5 pts – Met 0 pts – Not Met If this functionality is included in the design proposal the functionality will be tested as part of solution acceptance testing.
Documentation Search				
R17	Development Search Functionality Requirement	The <i>SOLUTION</i> should allow <i>GC USERS</i> (developers) to invoke an online and offline search feature of the technical documentation for finding answers to questions for the design and programming of the <i>SOLUTION</i> .	The Bidder should clearly demonstrate this by referencing documentation.	5 pts – <i>SOLUTION</i> supports online and offline search features 0 pts – <i>SOLUTION</i> does not support online and offline search features

Training			
R18	Training Functionality Requirement	GC USERS should be able to gain experience and knowledge of the SOLUTION's underlying COTS product(s) through free On-line Training.	5 pts – Met 0 pts – Not Met
R19	Management Bid Bidders Understanding	<p>Bidders are requested to demonstrate their understanding of the SOLUTION in writing and video presentation, based on the requirements described in the Evaluation Criteria and the Software Requirement Specifications – Annex A.</p> <p>Bidders are requested to submit their proposals and video presentation clearly describing the proposed SOLUTION specifically addressing or presenting:</p> <ul style="list-style-type: none"> a. Company information including background information and their maintenance and support offerings. This should include an overview of the Bidder and any sub-bidders, and/or authorized agents of the Bidder that would be involved in the performance of the Work on the Bidder's behalf. The Bidder is requested to provide a brief description of its company size, corporate structure, and number of years in business, business activities, major customers, number of employees and their geographic presence. The above information is requested for information purposes only and will not be evaluated. b. All assumptions the Bidder is making in their response. c. The technical architecture of the proposed SOLUTION. d. How the proposed SOLUTION addresses the thirty (30) high level requirements in section 5.1 of the SRS Annex A. 	<p>The proposals and video presentations will be evaluated by the Statistics Canada's evaluation team. The evaluation team will assign a score from 0 to 90 points based on their determination of the Bidders ability to deliver the SOLUTION.</p> <p>Canada will evaluate based on the information provided for parts (b) – (l) how well the Bidder understands the requirements of the SOLUTION.</p> <p>Rating Scale</p> <p>90 pts - Outstanding: Demonstrates full understanding; Innovative; exceeds requirements; data model is easy to implement and addresses all of the needs; comprehensive and complete in all the details; plan makes sense; knowledge transfer program is complete; SOLUTION can be easily adapted in the future.</p> <p>60 pts – Good: Meets all minimum requirements; data model is not easy to implement but addresses all of the needs; demonstrates partial understanding; lack of innovation and adaptability; plans are good.</p> <p>30 pts – Fair: Misses some requirements; data model is not easy to implement and does not address all of the needs; demonstrates partial understanding; some detail missing; no innovation and no future adaptability; plans are lacking detail.</p>

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		<p>e. Clearly describe which point rated requirements they meet in their proposed <i>SOLUTION</i> and the impact on the design and why.</p> <p>f. Highlight areas of innovation.</p> <p>g. The proposed data model and the process to update information or data. The model should be efficient. Efficient in this context is defined as easy to implement, and allow updates to the data in a straightforward way.</p> <p>h. A description on how the proposed <i>SOLUTION</i> will be implemented.</p> <p>i. A preliminary/draft/proposed project plan.</p> <p>(i) Describing which Solution Based requirements are already developed and <i>SOLUTION</i> ready.</p> <p>j. The proposed knowledge transfer program to ensure full knowledge transfer to Statistics Canada <i>IT</i> staff on all technical aspects of the <i>SOLUTION</i>.</p> <p>k. A risk management plan.</p> <p>l. How the proposed <i>SOLUTION</i> can be adapted in the future to allow for new requirements and innovation.</p>	<p>0 pts – Not Met: Incomplete proposal, no understanding of the <i>SOLUTION</i> or answers to requirements have not been presented.</p> <p>Minimum score required: 30 pts.</p>
Total Points			300 pts

Attachment 5.1

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 any request or requirement imposed by Canada may render the bid non-responsive or constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit [Employment and Social Development Canada \(ESDC\) – 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 [federally regulated employer](#) being subject to the [Employment Equity Act](#).
- ☐ A4. The Bidder certifies having a combined work force in Canada of less than 100 permanent full-time and/or permanent part-time employees.

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 [Agreement to Implement Employment Equity](#) (AIEE) in place with ESDC-Labour.

OR

- ☐ A5.2. The Bidder certifies having submitted the [Agreement to Implement Employment Equity \(LAB1168\)](#) to ESDC-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 ESDC-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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Attachment 5.2 – Software Publisher Forms

The Software Publisher Certification Form (to be used where the Bidder itself is the Software Publisher)				
<p>The Bidder certifies that it is the software publisher of all the following software products and that it has all the rights necessary to license them (and any non-proprietary sub-components incorporated into the software) on a royalty-free basis to Canada pursuant to the terms set out in the resulting contract:</p> <table border="1"><tr><td> </td></tr><tr><td> </td></tr><tr><td> </td></tr><tr><td> </td></tr></table> <p><i>[Bidders should add or remove lines as needed]</i></p>				

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Form _____
Software Publisher Authorization Form
(to be used where the Bidder is not the Software Publisher)

This confirms that the software publisher identified below has authorized the Bidder named below to license its proprietary software products under the contract resulting from the bid solicitation identified below. The software publisher acknowledges that no shrink-wrap or click-wrap or other terms and conditions will apply, and that the contract resulting from the bid solicitation (as amended from time to time by its parties) will represent the entire agreement, including with respect to the license of the software products of the software publisher listed below. The software publisher further acknowledges that, if the method of delivery (such as download) requires a user to "click through" or otherwise acknowledge the application of terms and conditions not included in the bid solicitation, those terms and conditions do not apply to Canada's use of the software products of the software publisher listed below, despite the user clicking "I accept" or signalling in any other way agreement with the additional terms and conditions.

This authorization applies to the following software products:

[Bidders should add or remove lines as needed]

Name of Software Publisher (SP) _____

Signature of authorized signatory of SP _____

Print Name of authorized signatory of SP _____

Print Title of authorized signatory of SP _____

Address for authorized signatory of SP _____

Telephone no. for authorized signatory of SP _____

Fax no. for authorized signatory of SP _____

Date signed _____

Solicitation Number _____

Name of Bidder _____

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Attachment 5.3

Certificate of Compliance

We _____ (insert company name and address) have thoroughly reviewed and understood the requirements of the complete Solicitation.

By signing this "Certificate of Compliance", we certify that we will satisfy the requirements of Part 7 – Resulting Contract Clauses, including but not limited to all requirements as set out at Annex A - SOFTWARE REQUIREMENT SPECIFICATION (SRS) and all proposed rated requirements.

The Bidder must sign the following statement:

_____(Bidder name) represents and warrants that it has read, understands and complies without deviation with all of the requirements of the Solicitation and acknowledges that it understands and agrees to the of Part 7 – Resulting Contract Clauses.

(Name of Bidder)

(Signature)

Date