



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government
Services Canada/Réception des soumissions Travaux
publics et Services gouvernementaux Canada
1713 Bedford Row
Halifax, N.S./Halifax, (N.É.)
B3J 1T3
Nova Scotia
Bid Fax: (902) 496-5016

**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

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

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

Comments - Commentaires

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

Issuing Office - Bureau de distribution
Atlantic Region Acquisitions/Région de l'Atlantique
Acquisitions
1713 Bedford Row
Halifax, N.S./Halifax, (N.É.)
B3J 3C9
Nova Scot

Title - Sujet Computer Generated Software Tool	
Solicitation No. - N° de l'invitation W010V-17A024/A	Amendment No. - N° modif. 001
Client Reference No. - N° de référence du client W010V-17-A024	Date 2017-07-12
GETS Reference No. - N° de référence de SEAG PW-\$HAL-218-10143	
File No. - N° de dossier HAL-6-77164 (218)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-08-21	
Time Zone Fuseau horaire Atlantic Daylight Saving Time ADT	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Conrad, Darren	Buyer Id - Id de l'acheteur hal218
Telephone No. - N° de téléphone (902) 496-5353 ()	FAX No. - N° de FAX (902) 496-5016
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

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

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BID SOLICITATION

COMPUTER GENERATED FORCES (CGF) TOOL

FOR

DEPARTMENT OF NATIONAL DEFENCE (DND)

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List of Annexes to the Resulting Contract:

Annex A	Statement of Requirements
Annex B	Substantiation of Technical Compliance
Annex C	Basis of Payment
Annex D	Financial Evaluation Example

Forms:

- Form 1 - Bid Submission Form
- Form 2 - OEM Certification Form
- Form 3 - Software Publisher Certification Form
- Form 4 - Software Publisher Authorization Form
- Form 5 - Declaration Form
- Form 6 - List of Names Form

BID SOLICITATION

COMPUTER GENERATED FORCES (CGF) TOOL

FOR

DEPARTMENT OF NATIONAL DEFENCE (DND)

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.

The annexes include the Statement of Work and any other annexes.

1.2 Summary

- (a) This bid solicitation is being issued to satisfy the requirement of the Department of National Defence (the "**Client**") for Computer Generated Forces (CGF) Tool. It is intended to result in the award of a contract for four (4) years,
- (b) 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), and the Canadian Free Trade Agreement (CFTA).

1.3 Debriefings

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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 (2017-04-27) 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 3 of Section 01, Integrity Provisions - Bid of Standard Instructions 2003 incorporated by reference above is deleted in its entirety and replaced with the following:

3. List of Names

- a) Bidders who are incorporated or who are a sole proprietorship, including those bidding as a joint venture, have already provided a list of names of all individuals who are directors of the Bidder, or the name of the owner(s), at the time of submitting an arrangement under the Request for Supply Arrangement (RFSA).
- b) These Bidders must immediately inform Canada in writing of any changes affecting the list of directors during this procurement process.
- (e) Subsection 5(4) of 2003, Standard Instructions - Goods or Services - Competitive Requirements is amended as follows:
 - (i) Delete: 60 days
 - (ii) Insert: 120 days

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 Enquiries - Bid Solicitation

- (a) All enquiries must be submitted in writing to the Contracting Authority no later than five (5) calendar days before the bid closing date. Enquiries received after that time may not be answered.
- (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

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sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as proprietary will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.4 Applicable Laws

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

2.5 Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications or Statement of Requirements 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.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

- (a) **Copies of Bid:** Canada requests that Bidders provide their bid in separately bound sections as follows:
- (i) Section I: Technical Bid two (2) copies.
 - (ii) Section II: Financial Bid one (1) hard copy
 - (iii) Section III: Certifications one (1) hard copies.
 - (iv) Section IV: Additional Information one (1) hard copy.
- Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.
- (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.

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- (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. See the 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 paper containing fibre certified as originating from a sustainably-managed forest and/or containing a minimum of 30% recycled content; and
 - (ii) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, and 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. Failure to meet this deadline will result in all the affected bids being disqualified.
 - (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.

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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.

3.2 Section I: Technical Bid

- (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 "A" 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

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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:** The technical bid must substantiate the compliance of the Bidder and its proposed solution with the specific articles of Annex A (Statement of Requirement) 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], 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) **Proposed Resources:** The technical bid must include résumés for the resources identified in Attachment Annex A. The same individual must not be proposed for more than one Resource Category. The Technical Bid must demonstrate that each proposed individual meets the qualification requirements described (including any educational requirements, work experience requirements, and professional designation or membership requirements). With respect to résumés and resources:
- (A) Proposed resources may be employees of the Bidder or employees of a subcontractor, or these individuals may be independent contractors to whom the Bidder would subcontract a portion of the Work (refer to Part 5, Certifications).
 - (B) For educational requirements for a particular degree, designation or certificate, PWGSC will only consider educational programs that were successfully completed by the resource by the time of bid closing. If the degree, designation or certification was issued by an educational institution outside of Canada, the Bidder must provide a copy of the results of the academic credential assessment and qualification recognition service issued by an agency or organization recognized by the Canadian Information Centre for International Credentials (CICIC).
 - (C) For requirements relating to professional designation or membership, the resource must have the required designation or membership by the time of bid closing and must continue, where applicable, to be a member in good standing of the profession or membership throughout the evaluation period and Contract Period. Where the designation or membership must be demonstrated through a certification, diploma or degree, such document must be current, valid and issued by the entity specified in this solicitation. If the entity is not specified, the issuer must have been an accredited or otherwise recognized body, institution or entity at the time the document was issued. If the degree, diploma or certification was issued by an educational institution outside of Canada, the Bidder must provide a copy of the results of the academic credential assessment and qualification recognition service issued by an agency or organization recognized by the Canadian Information Centre for International Credentials (CICIC).

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- (D) For work experience, PWGSC will not consider experience gained as part of an educational program, except for experience gained through a formal co-operative program at a post-secondary institution.
 - (E) For any requirements that specify a particular time period (e.g., 2 years) of work experience, PWGSC will disregard any information about experience if the technical bid does not include the relevant dates (month and year) for the experience claimed (i.e., the start date and end date). PWGSC will evaluate only the duration that the resource actually worked on a project or projects (from his or her start date to end date), instead of the overall start and end date of a project or a combination of projects in which a resource has participated.
 - (F) For work experience to be considered by PWGSC, the technical bid must not simply indicate the title of the individual's position, but must demonstrate that the resource has the required work experience by explaining the responsibilities and work performed by the individual while in that position. In situations in which a proposed resource worked at the same time on more than one project, the duration of any overlapping time period will be counted only once toward any requirements that relate to the individual's length of experience.
- (iv) **Description of the Bidder's Maintenance and Support Services:** The Bidder must include a description of its maintenance and support services for software, which must be consistent with all the requirements described in the Resulting Contract Clauses, including the Statement of Work. At a minimum, the Bidder must describe its:
- (A) Problem reporting and response procedures;
 - (B) Escalation procedures;
 - (C) On-site support availability; and any enhancements to the basic requirements that the Bidder is offering.
- The Bidder may also describe any other information it considers relevant.
- (v) **List of Proposed Software:** The Bidder must include a complete list identifying both the name and the version number of each component of the Licensed Software required for the proposed Software Solution.
 - (vi) **Software Release Strategy:** The Bidder must include a proposed Release Strategy, which must demonstrate that the Bidder's Release Strategy meets all the mandatory requirements for handling releases described in the Statement of Work.
 - (vii) **Solution System Architecture:** The Bidder must include an overview of the proposed Software Solution's technical architecture.
 - (viii) **Description of Evolution of Software Solution:** The Bidder is requested to describe when and how the proposed Software Solution was conceived and how it has evolved, with the accomplishments of each release. This is requested for information purposes only and will not be evaluated.

3.3 Section II: Financial Bid

- (a) **Pricing:** Bidders must submit their financial bid in accordance with the Basis of Payment in Annex C. The total amount of Applicable Taxes must be shown separately.
- (b) **All Costs to be Included:** The financial bid must include all costs for the requirement described in the bid solicitation for the entire Contract Period, including any option to extend

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the Contract Period. 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.

(c) **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.

(d) **Exchange Rate Fluctuation**

(i) C3011T (2013-11-06), Exchange Rate Fluctuation

3.4 Section III: Certifications

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

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PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.2 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 Annex B.
- (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. 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 Annex B.
- (c) **Submission of a Sample**
 - (i) Each Bidder must submit one copy of the software solution to allow Canada to verify compliance of the product or solution with any of the requirements of this bid solicitation.

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- (ii) The sample must be delivered, at no cost to Canada, with the bid submission. Despite the written bid, if Canada determines as a result of examining the sample that the Bidder's proposed product or solution does not meet the mandatory requirements of this bid solicitation, the Bidder's bid will be declared non-responsive. Canada may, as a result of examining the sample, reduce the score of the Bidder on any rated requirement, if the examination of the sample indicates that the score provided to the Bidder on the basis of its written bid is not validated by the examination.

(d) Consideration of Additional Software Use Terms

- (i) Acceptance of all the terms and conditions contained in Part 7 - Resulting Contract Clauses (including those relating to software licensing and those incorporated by reference) is a mandatory requirement of this bid solicitation.
- (ii) However, Bidders may, as part of their bid, submit additional software use terms. Whether or not those software use terms will be included in any resulting contract (as an Annex in accordance with the Article entitled "Priority of Documents" in the Resulting Contract Clauses) will be determined using the process described below. Whether or not any proposed additional software use terms are acceptable to Canada is a matter solely within the discretion of Canada.
- (iii) The process is as follows:
 - (A) Bids may include additional software use terms that are proposed to supplement the terms of the Resulting Contract Clauses. Bidders should not submit a software publisher's full standard license terms (because full standard license terms generally contain provisions that deal with more than simply how the software can be used; for example, they frequently deal with issues such as limitation of liability or warranty, neither of which are software use terms);
 - (B) In cases where the Bidder has submitted a software publisher's full standard license terms, Canada will require that the Bidder remove these terms and submit only the software use terms that the Bidder would like Canada to consider;
 - (C) Canada will review the additional software use terms proposed by the top-ranked Bidder (identified after the financial evaluation) to determine if there are any provisions proposed by the Bidder that are unacceptable to Canada;
 - (D) If Canada determines that any proposed software use term is unacceptable to Canada, Canada will notify the Bidder, in writing, and will provide the Bidder with an opportunity to remove that provision from its bid or to propose alternate language for consideration by Canada. Canada may set a time limit for the Bidder to respond; if the Bidder submits alternate language, if Canada does not find the alternate language acceptable, Canada is not required to allow the Bidder to submit further alternate language;
 - (E) If the Bidder refuses to remove provisions unacceptable to Canada from its bid within the time limit set by Canada in its notice, the bid will be considered non-responsive and be disqualified; Canada may then proceed to the next-ranked bid; and
 - (F) If the Bidder agrees to remove the provisions that are unacceptable to Canada and it is awarded any resulting contract, the proposed additional software use terms (as revised) will be incorporated as an annex to the contract, as set out in the Article entitled "Priority of Documents" in the Resulting Contract Clauses.

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- (iv) For greater certainty and to ensure that only additional software use terms that have been approved by both parties are incorporated into any resulting contract, unless the additional software use terms proposed by the Bidder are included as a separate annex to the Contract and initialed by both parties, they will not be considered part of any resulting contract (even if they are part of the bid that is incorporated by reference into the resulting contract). The fact that some additional terms and conditions or software use terms were included in the bid will not result in those terms applying to any resulting contract, regardless of whether or not Canada has objected to them under the procedures described above.

4.3 Technical Evaluation

- (a) Mandatory and point-rated evaluation criteria are included in Annex B.

4.4 Financial Evaluation

- (a) The financial evaluation process is described in Annex D.
- (b) **Mandatory Financial Criteria**
- (i) SACC Manual Clause A0222T (2014-06-26), Evaluation of Price
- (c) **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.

4.5 Basis of Selection

1. To be declared responsive, a bid must:
 - a. comply with all the requirements of the bid solicitation; and
 - b. meet all mandatory criteria; and
 - c. obtain the required minimum of 850 points overall for the technical evaluation criteria which are subject to point rating.
The rating is performed on a scale of 1960 points.
2. Bids not meeting (a) or (b) or (c) will be declared non-responsive.
3. The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 60 % for the technical merit and 40 % for the price.
4. To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained / maximum number of points available multiplied by the ratio of 60 %.
5. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price and the ratio of 40 %.
6. For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.

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7. Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract.
 - (a) 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.
 - (b) If more than one bidder is ranked first because of identical overall scores, then the names of all such first ranked Bidders will be placed in a hat and the winner will be the first name drawn from it. All first ranked Bidders will be invited to witness the event.

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) Declaration of Convicted Offences

As applicable, pursuant to subsection Declaration of Convicted Offences of section 01 of the Standard Instructions, the Bidder must provide with its bid, the completed Declaration Form (5), to be given further consideration in the procurement process.

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 – List of Names

Bidders who are incorporated, including those bidding as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Bidder.

Bidders bidding as sole proprietorship, as well as those bidding as a joint venture, must provide the names of the owner(s).

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Bidders bidding as societies, firms or partnerships do not need to provide lists of names.

(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](http://www.labour.gc.ca/eng/standards_equality/eq/emp/fcp/list/inelig.shtml)" list (http://www.labour.gc.ca/eng/standards_equality/eq/emp/fcp/list/inelig.shtml) available from [Employment and Social Development Canada \(ESDC\)](http://www.esdc.gc.ca) - Labour's website.

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](http://www.esdc.gc.ca)" 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](http://www.esdc.gc.ca)" list during the period of the Contract.

(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. 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.

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PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Requirement

- (a) _____ (the "**Contractor**") agrees to supply to the Client the goods and services described in the Contract, including the Statement of Requirement, in accordance with, and at the prices set out in, the Contract. This includes:
- (i) granting the license to use the Licensed Software described in the Contract;
 - (ii) providing the Software Documentation;
 - (iii) providing maintenance and support for the Licensed Software during the Software Support Period;
 - (iv) providing professional services, as and when requested by Canada;
 - (v) providing training, as and when requested by Canada,
- to one or more locations to be designated by Canada, excluding any locations in areas subject to any of the Comprehensive Land Claims Agreements.
- (b) **Client:** Under the Contract, the "**Client**" is The Department of National Defence (DND).
- (c) **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.
- (d) **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) any reference to a "**deliverable**" or "**deliverables**" includes the license to use the Licensed Software (the Licensed Software itself is not a deliverable, because the Licensed Software is only being licensed under the Contract, not sold or transferred).

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6.2 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:

- (i) 2035 (2016-04-04), General Conditions - Higher Complexity - Services, apply to and form part of the Contract.

(b) Supplemental General Conditions:

The following Supplemental General Conditions:

- (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; and
- (iv) 4006 (2010-08-16), Supplemental General Conditions - Contractor to Own Intellectual Property Rights in Foreground Information;

apply to and form part of the Contract.

6.3 Security Requirement

There is no security requirement applicable to this Contract.

6.4 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 four (4) year(s) later.

6.5 Authorities

(a) Contracting Authority

The Contracting Authority for the Contract is:

Darren Conrad
Supply Specialist
Public Works and Government Services Canada
Atlantic Region Acquisitions Branch
1713 Bedford Row
Halifax, NS B3J 3C9

Telephone: 902.496.5353

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Fax: 902.496-5016
E-mail: Darren.Conrad@pwgsc-tpsgc.gc.ca

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

(b) Technical Authority

The Technical Authority for the Contract 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) Contractor's Representative (TO BE COMPLETED BY BIDDER)

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

6.6 Proactive Disclosure of Contracts with Former Public Servants

By providing information on his status as a former public servant in receipt of a pension under the Public Service Superannuation Act (PSSA), the Contractor has agreed that this information will be posted on departmental websites, Contract Policy Notice 2012-2 from the Treasury Board of Canada Secretariat.

6.7 Payment

(a) Basis of Payment

- (i) **Licensed Software:** For the license(s) to use the Licensed Software (including delivery of the Licensed Software and the Software, in accordance with the Contract, Canada will pay the Contractor the firm price(s) set out in Annex C, (DDP FOB destination),

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including all customs duties, Applicable Taxes extra. The firm prices include the warranty during the Software Warranty Period.

- (ii) **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 Technical Authority. All payments are subject to government audit.
- (iii) **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.
- (iv) **Purpose of Estimates:** All estimated costs contained in the Contract are included solely for the administrative purposes of Canada and do not represent a commitment on the part of Canada to purchase goods or services in these amounts. Any commitment to purchase specific amounts or values of goods or services is described elsewhere in the Contract.

(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) **Method of Payment - Advance Payment**

- (i) Canada will pay the Contractor in advance for the maintenance and support services 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.

(d) **Milestone Payments - Not subject to holdback**

Canada will make milestone payments in accordance with the Schedule of Milestones detailed in the Contract and the payment provisions of the Contract if:

- a. an accurate and complete claim for payment using [PWGSC-TPSGC 1111](#), Claim for Progress Payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b. all the certificates appearing on form [PWGSC-TPSGC 1111](#) have been signed by the respective authorized representatives;
- c. all work associated with the milestone and as applicable any deliverable required has been completed and accepted by Canada.

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(e) **Schedule of Milestones**

The schedule of milestones for which payments will be made in accordance with the Contract is as follows:

Milestone No.	Description or "Deliverable"	Firm Amount	Due Date or "Delivery Date"
_____	_____	_____	_____
_____	_____	_____	_____

(f) **SACC Manual Clauses**

- i. C0100C (2010-01-11), Discretionary Audit - Commercial Goods and/or Services

6.8 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, 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. On request, the Contractor must provide a copy of any invoices requested by the Contracting Authority.

6.9 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.

6.10 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.

6.11 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Nova Scotia.

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6.12 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;
 - (ii) 4003;
 - (iii) 4004;
 - (iv) 4006;
- (c) general conditions 2035 (2016-04-04) Higher Complexity Services;
- (d) Annex A, Statement of Requirement;
- (e) Annex B, Substantiation of Technical Compliance;
- (f) Annex C, Basis of Payment;
- (g) the Contractor's bid dated _____ (*insert date of bid*) (*If the bid was clarified or amended, insert the time of contract award*), 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.

6.13 Defence Contract

- (a) SACC Manual clause A9006C (2006-06-16) Defence Contract

6.14 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*

6.15 Foreign Nationals (Foreign Contractor)

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

6.16 Insurance Requirements

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

6.17 Limitation of Liability - Information Management/Information Technology

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(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 _____ 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 \$_____. *[Note: Insert the amount from the appropriate commodity grouping]*

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 \$_____, whichever is more. *[Note: Insert the dollar amount entered in subparagraph (B) above.]*

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

6.18 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.

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- (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.

6.19 Licensed Software

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

Licensed Software	The Licensed Software, which is defined in 4003, 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: _____ [this information will be completed at contract award using information in the Contractor's bid]
Type of License being Granted	User License
Number of Users Licensed	20
Option to Purchase Licenses for Additional Users	The Contractor grants to Canada the irrevocable option to purchase licenses for additional Users at the price set out in Annex C on the same terms and conditions as the initial User licenses granted under 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	Canadian Forces Maritime Warfare Centre PO Box 99000 Station Forces Halifax, NS Canada B3K 5X5
Media on which Licensed Software must be Delivered	CD-ROM, DVD-ROM
Source Code Escrow Required	YES

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- (b) **On-going Maintenance of Software Code:** The Contractor must continue to maintain the version of the Licensed Software (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 4 years from the date the Contract is awarded. 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 Software and, instead, decides to provide upgrades to the Licensed Software as part of the Software Support, the Contractor must provide written notice to Canada at least 12 months in advance of the discontinuation

6.20 Licensed Software Maintenance and Support

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

Licensed Programs	The Licensed Programs to be supported and maintained are: _____.
Software Support Period	Contract Period
Software Support Period when Additional Licenses added during Contract Period	For any additional licenses purchased in accordance with the Contract, the Software Support Period currently underway will apply to the additional licenses purchased, so that the Software Support Period ends on the same date for all licences supported under the Contract.
Contractor must provide On-site Support Services	Yes
Contractor must keep track of software releases for the purpose of configuration control	Yes
Contact Information for Accessing the Contractor's Support Services	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. [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].

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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	The Support Services must be provided in English, based on the choice of the User requesting support.

6.21 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.

6.22 Representations and Warranties

The Contractor made statements regarding its and its proposed resources' experience and expertise in its bid that resulted in the award of the Contract. The Contractor represents and warrants that all those statements are true and acknowledges that Canada relied on those statements in awarding the Contract. 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.

6.23 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.

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6.24 Government Property

Canada agrees to supply the Contractor with the items listed below (the "Government Property"). The section of the General Conditions entitled "Government Property" also applies to the use of the Government Property by the Contractor.

- a) Canada will provide the InterMAP interface documentation to the Contractor within five (5) days after Contract Award.

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ANNEX A

STATEMENT OF REQUIREMENT

Computer Generated Forces (CGF) Tool

1.0 SCOPE

- 1.1 Canada requires a Computer Generated Forces (CGF) software program for use at the Canadian Forces Maritime Warfare Centre (CFMWC) as an integral part of the Royal Canadian Navy's (RCN) Modelling and Simulation (M&S) Infrastructure. The Contractor will initially deliver their off-the-shelf CGF product. Canada and the Contractor acknowledge that the Contractor's initial version of the off-the-shelf CGF does not meet Canada's entire Requirement as identified in Tables 1 to 12 of this SOW. These may be referred to as Canadian Unique Requirements. The Contractor will develop, test, integrate and deliver all Canadian Unique Requirements over a four year period. The package must include twenty (20) Department of National Defence (DND) licenses of the off-the-shelf and all updated versions of the CGF tool, including off-site full-time software and integration support, with the provision for three (3) on-site support visits, each of one (1) week duration, for the first year.
- 1.2 In addition, the Contractor will deliver the following items to ensure full integration of the CGF tool within the synthetic environment:
 - 1.2.1 three (3) years follow-on annual technical support (after year-one) for the twenty (20) Department of National Defence (DND) Licenses of the Computer Generated Forces (CGF) tool; and
 - 1.2.2 three (3) years of software development and test support (after year one), including the provision for an on-site support team three (3) times, within the three (3) year period, for one (1) week duration per visit.
- 1.3 Background :
 - 1.3.1 CFMWC utilises Modelling & Simulation (M&S) to conduct tactics development and to provide force development advice; a common CGF and scenario generation tool must be acquired, integrated and maintained to facilitate the full spectrum of activities. Implementation of this requirement will ensure an efficient vignette development and modification workflow is available for all M&S activities. Therefore the ability to integrate the CGF tool with the existing CFMWC Synthetic Environment Infrastructure, via an Application Programming Interface (API) is of prime importance, as interfacing protocols such as Distributed Interactive Simulation (DIS) and High Level Architecture (HLA) are too slow for the CFMWC requirements.
 - 1.3.2 Although the existing physics-based modelling tools at the CFMWC have limited capability to manipulate multiple platforms and threat entities, their use is slow, cumbersome and can be error prone; hence, it is labour intensive. The interfaces of these tools are focused at the platform and threat entity definition level for physics modelling, additionally these tools limit the amount of attributes that can be Monte-Carlo'd. Use of a CGF tool removes these limitations, and allows any attribute or combination of attributes to be configured for Monte-Carlo analysis.
 - 1.3.3 Development of multiple, multi-threat/multi-platform vignettes and scenarios using the existing physics modelling tools would be extremely time consuming and require a far

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larger team than currently planned. A single CGF tool can be used to seed multiple instances of the physics modelling tools (1000s of parallel processes, each on a separate processing core), thus increasing runtime performance. It is viewed that the physics modelling tools will be used to define the platform, threat entity, and installed equipment characteristics and behaviours. An integrated Scenario Generation tool will then place and manipulate the platforms to form a larger scale vignette or scenario. This provides the combined benefits of a clean and efficient workflow for vignette development and modification, with high fidelity physics based models.

1.4 Terminology:

- 1.4.1 CGF: 1) A generic term used to refer to computer representations of forces in simulations that attempts to model human behavior sufficiently so that the forces will take some actions automatically, without requiring man-in-the-loop interaction. Also referred to as Semi-Automated Forces; and, 2) Simulation of entities on the virtual battlefield. Computer generated forces may be fully autonomous, needing no human direction, or semi-autonomous, requiring some direction by a human controller who is not a participant in the virtual events. Computer generated forces represent friendly, opposing, and neutral battlefield participants not portrayed by manned simulators.
- 1.4.2 SADM: Ship Air Defence Model (BAE Systems, Australia).
- 1.4.3 ODIN: Underwater Warfare Simulation Tool (Atlas Elektronik, UK).
- 1.4.4 Monte Carlo: In a Monte Carlo simulation, a random value is selected for each of the tasks, based on the range of estimates. The model is calculated based on this random value. The result of the model is recorded, and the process is repeated. A typical Monte Carlo simulation calculates the model hundreds or thousands of times, each time using different randomly-selected values. When the simulation is complete, we have a large number of results from the model, each based on random input values. These results are used to describe the likelihood, or probability, of reaching various results in the model.
- 1.4.5 Joint [Force]: A general term applied to a force composed of significant elements, assigned or attached, of two or more Military Departments operating under a single joint force commander.
- 1.4.6 SIMDIS™: RCN 3D visualization tool (simulation and display).
<https://SIMDIS.nrl.navy.mil/index.aspx>
- 1.4.7 GCCS-M/J: Global Command and Control System – Maritime/ Joint
- 1.4.8 InterMAP: InterMAP™ is a specialized software package developed by CFMWC essentially to support operational analysis and maritime modelling and simulation (M&S). The name itself stands for Internal System Binary Management, Archiving and Parsing. It is used for isolating, recording and archiving raw operational information from huge data streams and it does so by employing a generic parsing engine running on an Oracle database. InterMAP definitions are used to isolate the correct data elements that specify the “messages” to be found in the data stream. An InterMAP system is configured by the end user dynamically modifying or creating these InterMAP definitions, all without the need to change software source code.
- 1.4.9 Non-specialist: A user without software coding experience and with no more than 4 weeks use of the tool.

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- 1.4.10 Standalone Environment: A single computer without any wired or wireless network connectivity.
- 1.4.11 Distributed Environment: Multiple computers and/or processing cores that are not located within the same room and are interconnected via network connections.
- 1.4.12 Application Programming Interface (API): A set of routines, protocols and tools for building software applications. The API specifies how software components should interact.
- 1.4.13 Modelling Area Of Interest (MAOI): A user definable geographic region on the CGF tool map, where data associated with all entities within the region will be passed over the interface to InterMAP.
- 1.4.14 Contract Award: The date which appears on the top right hand corner of the front page of the Contract.
- 1.4.15 Virtual Machine: A software computer that, like a physical computer, runs an operating and applications. The Virtual Machine is comprised of a set of specification and configuration files and is backed by the physical resources of a host.
- 1.4.16 Compute Cluster Environment: Consists of a set of loosely or tightly connected computers that work together so that, in many respects, they can be viewed as a single system. Each node in a Computer Cluster is configured to perform the same task, controlled and scheduled by software.
- 1.4.17 Degrees Of Freedom (DOF): A direction in which independent motion can occur. This consists of both translational movement and attitude rotation for a possibility of up to 6-DOF for any particular entity
- 1.4.18 Synthetic Environment Infrastructure: Comprises the physical building resources, the Compute Cluster resources and the software which runs on it
- 1.4.19 Littoral: The coastal sea areas and that portion of the land which is susceptible to influence or support from the sea, generally recognized as the region which horizontally encompasses the land-water mass interface from 100km ashore to 200 nm at sea, and extending vertically into space from the bottom of the ocean and from the land surface.
- 1.4.20 Probability of Detection (Pd): The probability that a particular sensor detects a threat at sufficient range to properly control and conduct an engagement. Represented by a Pd Curve with Range (X axis) against Detection Probability (Y axis) for a given target.
- 1.4.21 Probability of Kill (Pk): The probability that a particular weapon killed or neutralized the target engaged. Represented by a Pk Curve with Range (X axis) against Kill Probability (Y axis) for a given target.
- 1.4.22 DIS: Distributed Interactive Simulation (DIS).
A time- and space-coherent synthetic representation of world environments designed for linking the interactive, free-play activities of people in operational exercises. The synthetic environment is created through real-time exchange of data units between distributed, computationally autonomous simulation applications in the form of simulations, simulators, and instrumented equipment interconnected through standard computer communicative services. The computational simulation entities may be present in one location or may be distributed geographically.
Defined by IEEE Standard 1278.

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1.4.23 HLA: High Level Architecture.

A family of related standards that together describe a unified approach and common architecture to constructing interoperable simulation systems. The HLA provides a general framework within which simulation developers can structure and describe their simulation applications. The use of runtime infrastructure software is required to support operations of a federation execution. The runtime infrastructure software provides a set of services, as defined by the federate interface specification, used by federates to coordinate operations and data exchange during a runtime execution. HLA is composed of three parts: the HLA rules, the HLA interface specification, and the object model template.

Defined by IEEE Standard 1516.

2.0 APPLICABLE DOCUMENTS

- 2.1 Canada will provide the InterMAP interface documentation to the Contractor within five (5) days after Contract Award.

3.0 REQUIREMENTS

- 3.1 The Contractor must provide Delivery and Integration of the Off-the-Shelf Software CGF and Licenses.
- 3.1.1 The Contractor must deliver the off-the shelf Computer Generated Forces (CGF) software to the Technical Authority (TA), no later than five (5) days after Contract Award;
- 3.1.2 The Contractor must deliver twenty (20) licenses for the off-the-shelf CGF software, concurrently with the delivery of the Off-The-Shelf CFG software;
- 3.1.3 The Contractor must interface the Off-the-Shelf Software CGF with the CFMWC Synthetic Environment Infrastructure;
- 3.1.4 Although the Computer Generated Forces (CGF) software must be delivered to the CFMWC, the Contractor must ensure that licenses are structured to provide for use across the Department of National Defence (DND) organization, which must include the provision of the licenses to specific contractors working on DND approved programs who require interaction with the CGF tool, subject to Controlled Goods and DND procedures;
- 3.2 Identification of Canadian Unique Requirements.
- 3.2.1 The Contractor must prepare a list of all requirements identified in Tables 1 – 12 that are not provided in the off-the-shelf CGF version. The Contractor must deliver an electronic document titled Canadian Unique Requirements, which:
- i. is in a Microsoft Office compatible format;
 - ii. lists all requirements contained in Tables 1 to 12 which are not included in the Contractor's off-the-shelf CGF;
 - iii. deliver this file to the TA, no later than thirty (30) days after Contract Award;

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- iv. shall be subject to Canada's approval and prioritization in order for the Contractor to meet their contractual obligation.

3.3 Development, Testing, Integration and Delivery of Canadian Unique Requirements.

- 3.3.1 The Contractor must incorporate the Canadian Unique Requirements into successive upgrades of the CGF. The Contractor must propose what Canadian Unique Requirements will be grouped together and provided under each successive submission of the upgraded CGF. The Contractor must deliver the upgraded CGF code to Canada on a periodic basis as agreed to by both the Contractor and Canada.
- 3.3.2 The Contractor must ensure that testing irrefutably proves that code runs without bugs or crashes. The Contractor must allow Canada to witness testing. The Contractor must ensure that testing is successfully completed before any upgraded CGF that includes a Canadian Unique Requirement is delivered and integrated in Canada's CFMWC.
- 3.3.3 The Contractor must prepare a plan to develop, test, integrate and deliver the software code necessary to address each Canadian Unique Requirement. The Contractor must deliver this plan, entitled Detail Schedule, as a single Microsoft Office compatible format. The Contractor must deliver the Detailed Schedule to the TA no later than ninety (90) days after Contract Award. The Contractor must include the following in the Detail Schedule:
- i. start & finish dates, the duration and the relationship needed to:
- develop the software changes for each Canadian Unique Requirement;
 - conduct the Contractor's internal computer software testing for each Canadian Unique Requirement ;
 - integrate the software changes into the Contractor's CGF;
 - conduct the Contractor's internal system integration testing
 - deliver the updated CGF to the TA;
 - install and integrate the upgraded version of the CGF in Canada's CFMWC
 - test the upgraded version of the CGF once installed in Canada's CFMWC
- ii. the group of Canadian Unique Requirements that will be included in each successive delivery of the CGF.
- 3.3.4 The Contractor must include licensing for the first year, comprising of:
- 3.3.4.1 One (1) year Technical Support – Updates, Upgrades, Off-site Technical Support.
- 3.3.4.2 One (1) year off-site Full Time Developer and Test support for customization and modification to implement the changes associated with the Developmental and non-fully compliant Rated Requirements (located at the Contractor's facility); and
- 3.3.4.3 On-Site Support from the Development team three (3) times a year for one (1) week per visit, the first of which occurring forty (40) days after Contract Award to facilitate a kick-off and integration planning meeting.

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- 3.3.5 Must include three (3) years follow-on licensing, after the first year, and comprise of the following:
- 3.3.5.1 Three (3) years of Annual Technical Support including - Updates, Upgrades and Off-site Technical Support, for the twenty (20) CGF licenses;
 - 3.3.5.2 Additional Developer and Test support for customization and modification (located at the Contractor's facility), for the three (3) year period; and
 - 3.3.5.3 On-Site Support from the Development team three (3) times, during the three (3) year period, for one (1) week per visit.
- 3.3.6 The Contractor must deliver all training material, documentation and software in editable electronic form and in English only.
- 3.3.7 The Contractor must provide a problem/issue reporting system that will allow any problems or issues with the CGF Tool or documentation to be raised and managed, from initial observation through to the resolution and closure.
- 3.3.8 All new source code created as a result of DND requirements, including that which is associated with external applications, interfaces and API, (if applicable) not currently part of internal proprietary of the Contractor code base must be supplied with rights for DND utilization and modification for DND purposes.
- 3.3.9 The Contractor must provide options for the software to be held in Escrow, for ongoing DND rights and utilization, in the event that Contractor ceases trading.
- 3.4 Technical Requirements: Tables 1 through 12 below present the list of technical requirements for the CGF tool.

Req. Id	USER Interface Requirement Text
CGF_001	The CGF tool must provide a graphical interface, which does not require software coding, to create, modify or run scenarios.
CGF_002	The user interface must be logical, well organized and allow access to all model parameters.
CGF_003	The CGF tool must provide a map-based user interface for scenario development by a non-specialist.
CGF_004	The CGF tool must provide a user interface for the editing of entities, weapons and sensors by a non-specialist.
CGF_005	The CGF tool must provide a user interface for the editing of the terrain environment by a non-specialist.
CGF_006	The CGF tool's user interface must provide access to input and modify model parameters.
CGF_007	The User must be able to view individual entity states through the user interface.

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Req. Id	USER Interface Requirement Text
CGF_008	The User, when developing scenarios, must not require any software coding knowledge to use the CGF tool.
CGF_009	The User, when developing entities, must not require any software coding knowledge to use the CGF tool.
CGF_010	The CGF tool must only require a standard keyboard and mouse user interface.
CGF_011	The CGF tool must be able to run on a standard laptop or desktop PC.
CGF_012	The CGF tool must be compatible with single screen operation, as in the case of a standalone laptop.
CGF_013	The CGF tool must operate in a Microsoft Windows environment.
CGF_014	The CGF tool must be portable to a Linux environment.
CGF_015	The CGF tool must be able to run on virtual machines within a compute cluster environment.

Table 1: User Interface Requirements

Req. Id	Machine Interfaces & Networking Requirement Text
CGF_016	The CGF tool must be able to operate in a standalone environment, without the need for a network connection.
CGF_017	The CGF tool must be able to operate in a distributed environment, where multiple machines running the CGF tool are networked together.
CGF_018	The CGF tool must be able to run in a Monte Carlo mode
CGF_019	A single CGF tool license must be able to spawn multiple instances (INSERT LARGER VALUE OF 500 OR CLAIM FROM WINNING BIDDERS PROPOSAL) of CGF runtimes, for Monte Carlo operation.
CGF_020	The CGF tool must be able to operate with other software, such as SADM, ODIN, MATLAB, SIMDIS™, and Office tools, on the Host machine.
CGF_021	The CGF tool must provide a bidirectional interface to InterMAP.
CGF_022	The CGF tool must provide an IEEE 1278 DIS compatible interface.

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Req. Id	Machine Interfaces & Networking Requirement Text
CGF_023	The CGF tool must be able to support at least three (3) simultaneous network interfaces, such as an IEEE 1278 DIS output, other CGF and InterMAP.
CGF_024	When run in a distributed environment, each instance of the CGF tool must be able to support at least 2 (two) simultaneous network interfaces.
CGF_025	The CGF tool must be able support multiple simultaneous network interfaces.
CGF_026	The CGF tool must be able to interoperate with other CGF, Exercise Simulation & Wargaming and visualisation tools, via IEEE 1278 DIS or IEEE 1516 HLA (with RPR FOM v2 D17) protocols.
CGF_027	The CGF tool must provide an Application Programming Interface (API), which provides features, such as: <ul style="list-style-type: none"> • Simulation modification & control; • Entity modification & control; • Weather modification & control; • Interface modification & control; and • Display modification & control.
CGF_028	The CGF tool must be able to interoperate with SADM, via the InterMAP interface.
CGF_029	The CGF tool must be able to interoperate with ODIN, via the InterMAP interface.
CGF_030	The CGF tool must be able to interface with NRL SIMDIS™, using an IEEE 1278 DIS interface.
CGF_031	The CGF tool must be capable of running and participating in time-managed simulations to facilitate accurate synchronization with external applications.
CGF_032	The CGF tool must be capable of interoperating with OTH_Gold.

Table 2: Machine Interfaces & Networking Requirements

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Req. Id	General Entity Modelling Requirement Text
CGF_033	The CGF tool must be capable of representing personnel, platforms, communications, weapons, sensors and threats.
CGF_034	The CGF tool must come with representative (default) entities, weapons, sensors and systems for friendly, enemy and neutral forces, including damage, movement, tactical models and behavior, both individual and group (for example, a convoy).
CGF_035	The User must be able to create new platforms, weapons, threats and sensors beyond those that come with the original acquisition without the tool Bidder support.
CGF_036	The CGF tool must allow sensor performance to be simulated using probability of detection (Pd) curves.
CGF_037	The CGF tool must allow effector performance to be simulated using probability of kill (Pk) curves.
CGF_038	The CGF tool must allow simulated operator command and control (C2) decision and interaction delays to be modelled.
CGF_039	<p>The CGF tool must have an integral, method (such as plug-in mechanism or GUI) to allow extension to, modification of and/or replacement of models within the CGF, including changes to entity:</p> <ul style="list-style-type: none"> • type; • kinematic performance; • manning levels; • reliability & maintainability; • domain (air, land, sea surface, sea sub-surface, or space); • vulnerability; • lethality; • detectability aka signature; • sensor & weapon performance; and • fuel efficiency.
CGF_040	The User must have ability to create and assign logical sets of behaviours, such as a surface ship Torpedo Counter Measures (TCM), to specific entity types and operating environments so that context-sensitive behaviours are presented for a specific entity type via the user interface.
CGF_041	The CGF tool must allow users to determine speed and direction of entities, detection of other entities, and fire effectors as necessary

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Req. Id	General Entity Modelling Requirement Text
CGF_042	The CGF tool must be capable of representing entities, behaviours and effects, as well as objects including navigational hazards and markers such as roads, bridges, buoys, reefs and swamps
CGF_043	The CGF tool must allow for interfacing with C2 systems, such that the C2 system can initialize, configure and control the CGF system through a standard BML interface (at least one of C-BML, GCCS or JC3IEDM/MIP)
CGF_044	The CGF tool must be capable of representing damage modelling for friendly, opposing and neutral forces
CGF_045	The CGF tool must be able to model the effects of personnel morale and training effectiveness, at a platform level.
CGF_046	The CGF tool must be able to model the effects of logistics, such as: <ul style="list-style-type: none"> • Operational Availability (Ao); • Equipment Mean Time Between Failure (MTBF); • Equipment Mean Time To Repair (MTTR); • Equipment Logistics Delay Time (MLDT); and • Equipment Level of Repair (1st Line, 2nd Line, Depot and Non Repairable).
CGF_047	The User must be able to define a sub area of the CGF tool map as a Modelling Area Of Interest (MAOI) of at least 350NM ² , where data associated with (INSERT LARGER VALUE OF 500 OR CLAIM FROM WINNING BIDDERS PROPOSAL) entities within the region will be updated at minimum 10Hz.

Table 3: General Entity Modelling Requirements

Req. Id	Air Entity Modelling Requirement Text
CGF_048	The CGF tool must allow at least 50 air entities to be defined as high data rate, which will enable updates at a minimum of 60Hz within the MAOI, via the InterMAP Interface.
CGF_049	The CGF tool must be able to model aircraft, including the kinematics, sensors, weapons, behaviour and tactics
CGF_050	The CGF tool must be able to represent air entities with 6-DOF.
CGF_051	The CGF tool must be able to report orientation of air entities as Euler Angles (Radians).

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Req. Id	Air Entity Modelling Requirement Text
CGF_052	The CGF tool must be able to report orientation rates of air entities as Euler Angle Rates (Radians/Second).
CGF_053	The CGF tool must be able to report velocities of air entities as X-Vel, Y-Vel and Z-Vel (Metres/Second).
CGF_054	The CGF tool must be able to report the position of air entities as X, Y, Z (Metres).

Table 4: Air Entity Modelling Requirements

Req. Id	Land Entity Modelling Requirement Text
CGF_055	The CGF tool must provide updates of at least 10 land entities defined as observers at a minimum of 5Hz within the MAOI, via the InterMAP interface.
CGF_056	The CGF tool must provide updates of at least 20 land entities not defined as observers at a minimum of 1Hz within the MAOI, via the InterMAP interface.
CGF_057	The CGF tool must be able to model land vehicles, including the kinematics, sensors, weapons, behaviour and tactics.
CGF_058	The CGF tool must be able to model land installations, including the sensors, weapons, behaviour and tactics.
CGF_059	The CGF tool must be able to represent land entities with 3-DOF.
CGF_060	The CGF tool must be able to report orientation of land entities as Euler Angles (Radians)
CGF_061	The CGF tool must be able to report orientation rates of land entities as Euler Angle Rates (Radians/Second)
CGF_062	The CGF tool must be able to report velocities of land entities as X-Vel and Y-Vel (Metres/Second)
CGF_063	The CGF tool must be able to report the position of land entities as X, Y (Metres).

Table 5: Land Entity Modelling Requirements

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Req. Id	Sea Entity Modelling Requirement Text
CGF_064	The CGF tool must allow at least 30 sea surface entities to be defined as high data rate, which will enable updates at a minimum of 60 Hz within the MAOI, via the InterMAP Interface.
CGF_065	The CGF tool must update at least 20 sea surface entities, not defined as high data rate, at a minimum of 10Hz within the MAOI, via the InterMAP Interface.
CGF_066	The CGF tool must be able to model ships, including the kinematics, sensors, weapons, behaviour and tactics
CGF_067	The CGF tool must be able to represent sea surface entities with 6-DOF.
CGF_068	The CGF tool must be able to report orientation of sea surface entities as Euler Angles (Radians)
CGF_069	The CGF tool must be able to report orientation rates of sea surface as Euler Angle Rates (Radians/Second)
CGF_070	The CGF tool must be able to report velocities of sea surface entities as X-Vel, Y-Vel and Z-Vel (Metres/Second)
CGF_071	The CGF tool must be able to report position of sea surface entities as X, Y, Z (Metres)

Table 6: Sea Entity Modelling Requirements

Solicitation No. – N° de l'invitation W010V-17A024/A	Amd. No – N° de la modif.	Buyer ID – Id de l'acheteur HAL218
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Req. Id	Sub-Surface Entity Modelling Requirement Text
CGF_072	The CGF tool must allow at least 5 sub-surface entities to be defined as high data rate, which will enable updates at a minimum of 60Hz within the MAOI, via the InterMAP Interface.
CGF_073	The CGF tool must update at least 5 sub-surface entities, not defined as high data rate, at a minimum of 10Hz within the MAOI, via the InterMAP Interface.
CGF_074	The CGF tool must be able to model sub-surface platforms including the kinematics, sensors, weapons, behaviour and tactics.
CGF_075	The CGF tool must model sub-surface entities with 6-DOF.
CGF_076	The CGF tool must be able to report orientation of sub-surface entities as Euler Angles (Radians)
CGF_077	The CGF tool must be able to report orientation Rates of sub-surface entities as Euler Angle Rates (Radians/Second)
CGF_078	The CGF tool must be able to report velocities of sub-surface entities reported as X-Vel, Y-Vel and Z-Vel (Metres/Second)
CGF_079	The CGF tool must be able to report position of sub-surface entities as X, Y, Z (Metres)

Table 7: Sub-surface Entity Modelling Requirements

Req. Id	Tactics and Behaviour Modelling Requirement Text
CGF_080	The CGF tool must be able to represent rules of engagement for individual and groups of entities, such as Self Defence, Respond to Hostile Intent, Respond to Hostile Act, Deter, Disable, Destroy, Avoid and Withdraw.
CGF_081	In a single scenario, the CGF tool must be capable of representing a geographic area of up to 8750NM ²
CGF_082	The CGF tool must be capable of representing behaviours (based on the scenario), such as aggressive, defensive, passive and benign.
CGF_083	The CGF tool must support the simulation of voice communications between simulated and live entities.
CGF_084	The CGF tool must allow entities to be slaved to a master entity, to enable easy definition of formations.
CGF_085	The CGF tool must allow weapons utilisation to be restricted to specific target types.

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Req. Id	Tactics and Behaviour Modelling Requirement Text
CGF_086	The CGF tool must allow sensor detections to be restricted to specific contact types and operating environments. e.g. a radar cannot detect a submerged submarine, and a sonar cannot detect airborne entities.
CGF_087	When connected via the InterMAP interface, the CGF tool must receive entity interactions, such as sensor detections, weapon releases, and kill assessments.
CGF_088	When connected via the InterMAP Interface, the CGF tool must transmit entity interactions, such as platform creation, movements and deletion.
CGF_089	The CGF tool must allow scenarios and vignettes to be distributed across multiple CGF tool instances, allowing specific entities or entity groups to be distributed.
CGF_090	The CGF tool must be configurable to coordinate multiple CGF tool instances from a single master CGF tool instance, to support a distributed scenario or vignette.

Table 8: Tactics and Behaviour Modelling Requirements

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Req. Id	Environmental & Terrain Modelling Requirement Text
CGF_091	The CGF tool must be able to facilitate terrain file generation without requiring any extra tools not included with the CGF tool, with the ability to edit terrain objects
CGF_092	The CGF tool must facilitate modelling of the ocean environment including depth/bathymetry, acoustic modelling and sound propagation.
CGF_093	The CGF tool must allow the representation of maritime domains, such as deep water, shallow water and the littoral.
CGF_094	The CGF tool must allow the representation of the various terrain types for the land domain, such as grasslands, tundra, desert, rocky, forest, brush, marsh, lakes, rivers and man-made.
CGF_095	The CGF tool must be capable of representing the effects of weather, such as rain, fog, snow, wind and sun, on entities, sensor detection ranges and weapon effectiveness.
CGF_096	The CGF tool must be capable of displaying map data from anywhere in the world preferably using the WGS-84 datum
CGF_097	The CGF tool must be capable of incorporating data and information associated with industry standard GIS and mapping tools, such as Global Mapper and ESRI.

Table 9: Environmental & Terrain Modelling Requirements

Req. Id	Record and Replay Requirement Text
CGF_098	The CGF tool must allow any given scenario or vignette to be 100% repeatable, ensuring results can be recreated.
CGF_099	The CGF tool must be capable of producing and exporting data files in a format usable by Microsoft Office tools.
CGF_100	The CGF tool must facilitate After Action Reporting (AAR) via an integrated data logger with exposed and accessible logging formats, and the ability to record and replay scenarios

Table 10: Record and Replay Requirements

Req. Id	Runtime Management Requirement Text
CGF_101	The CGF tool must allow for scenario modification, including entity behaviour, at run time

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Req. Id	Runtime Management Requirement Text
CGF_102	The CGF tool must be capable of supporting multiple, asynchronous batch runs in a parallel processing fashion and then pooling the results – hence requires an architecture and control processes to facilitate this
CGF_103	The CGF tool must be capable of supporting exploratory data analysis via "hands-off" faster-than-real-time execution in a batch mode of operation (INSERT LARGER VALUE OF 400 RUNS OR CLAIM FROM WINNING BIDDERS PROPOSAL) to facilitate Monte Carlo approaches to experimentation.
CGF_104	The CGF tool must be capable of supporting single run, repeatable experiments.
CGF_105	The CGF tool must allow creation of save-and-restore points during runs to facilitate rewind and restart of scenarios
CGF_106	The CGF tool must permit full interactive control of individual entities at run time for real-time and Monte Carlo applications
CGF_107	The CGF tool must be capable of representing and instantiating (INSERT LARGER VALUE OF 500 OR CLAIM FROM WINNING BIDDERS PROPOSAL) dynamic entities in a single scenario
CGF_108	The CGF tool must facilitate human-in-the-loop operation/control to permit non-constrained, real-time execution of scenarios
CGF_109	The CGF tool must allow for execution faster-than, slower-than and real time, as well as pause, stop, save-and-restore, check-points
CGF_110	The CGF tool must permit control and modification of entity behaviours at run time for real-time and Monte Carlo Applications
CGF_111	The CGF tool must facilitate control of the scenario via both the User Interface and via scripts
CGF_112	The CGF tool must have a mechanism whereby any unexpected or unresolvable results can be assessed in detail. This can be facilitated through access to source code or a robust, responsive technical support capability from the vendor in conjunction with access to and assessment of system state variables

Table 11: Runtime Management Requirements

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Req. Id	Documentation and Training Requirement Text
CGF_113	The CGF tool (including all updated deliveries of the CGF tool) must be supplied with detailed documentation that describes operation of the User Interface (UI) and function of the underlying algorithms and models, as well as description of the installation and configuration of the system
CGF_114	The CGF tool must include help features for the user interface and all functionality
CGF_115	The CGF tool must be accompanied by documentation and training that includes basic level introduction, tutorials and specialized descriptions.
CGF_116	The Contractor must provide CGF tool documentation that covers the following aspects: scenario development, administrator, basic user, importance of configuration parameters and associated interdependencies

Table 12: Documentation and Training Requirements

3.5 **Constraints:** Upon contract award, the timeline/phases identified in previous paragraphs will commence. The Contractor must adhere to the constraints on the contract as described within Table 13.

Const. Id	Constraint Text
CONS_001	The Contractor must use their own development and test processes for any Tool Customization or Modification.
CONS_002	The Contractor must use their own development and test documentation for any Tool Customization or Modification.
CONS_003	While working onsite at the CFMWC the Contractor must be able to make changes to their CGF tool(s), including core software, GUI's and APIs.

Table 13: Contractor Constraints

3.6 **Client Support:** The Contractor may approach the Technical Authority to request support by RCN subject matter experts (SME), either uniformed personnel or DND embedded contractors, in order to gain insight on technical integration issues and operational relevance within the navy and joint synthetic environmental context.).

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4.0 DELIVERABLES

- 4.1 Within thirty (30) days following Contract Award, the Contractor must deliver:
 - 4.1.1 Twenty (20) Department of National Defence (DND) licenses of the CGF tool;
 - 4.1.2 Initial CGF Tool Installation Documentation;
 - 4.1.3 Initial CGF Tool User Guide;
 - 4.1.4 Initial CGF Tool Release Notes; and
 - 4.1.5 Initial CGF Tool Training Material;
- 4.2 From Contract Award to Completion (Contract Award + 48 months) , the Contractor must deliver:
 - 4.2.1 CGF Tool Interim software releases, as required and agreed upon in paragraph 3.3.3;
 - 4.2.2 CGF Tool Formal software releases, annually;
 - 4.2.3 Three (3) years follow-on licensing for the Twenty (20) Department of National Defence (DND) licenses of the CGF tool (Contract Award + 12 months);
 - 4.2.4 Monthly status reports via e-mail to the Project Leader and Technical Authority, which at a minimum provides:
 - 4.2.4.1 A general status summary (detailing any Successes, Opportunities, Failures and Threats);
 - 4.2.4.2 A risk register;
 - 4.2.4.3 A statement of progress towards next interim software release;
 - 4.2.4.4 Dates and personnel details for any visits planned to the CA site;
 - 4.2.4.5 Status of all problems/issues raised; and
 - 4.2.4.6 Date for next formal release.
 - 4.2.5 Design & Test documentation for all CGF Tool Customizations and Modifications.
 - 4.2.6 For each formal software release:
 - 4.2.6.1 Revised CGF Tool Installation Documentation;
 - 4.2.6.2 Revised CGF Tool User Guide;
 - 4.2.6.3 Revised CGF Tool Release Notes; and
 - 4.2.6.4 Revised CGF Tool Training Material
 - 4.2.7 CGF Tool Upgrades and Updates included within the license and support agreement.

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ANNEX B

SUBSTANTIATION OF TECHNICAL COMPLIANCE

1. The technical evaluation has been divided into two activities. The first is the evaluation of the Mandatory Technical Requirements and the second activity is the evaluation of the Rated Technical Requirements.
 - 1.1. **Mandatory Technical Requirements:** Canada's Evaluation Team will first conduct the Mandatory Technical Evaluation of all requirements identified in Table A1. The Mandatory Technical Requirements are defined in the column titled Mandatory Technical Requirements. The evaluation criteria that will be used to determine if the Bidder has successfully achieved the requirement is defined in the column titled Evaluation Criteria. The Bidder must provide all information, documentation and follow any instructions as specified in the Evaluation Criteria. Canada's Evaluation Team will evaluate the information, documents or other data provided by the Bidders against the Evaluation Criteria to determine if the Bidder has successfully passed each of the Technical Mandatory Requirements. The Technical Mandatory Requirements are a pass/fail requirement. The Bidder must successfully pass each and every Technical Mandatory Requirement in order for their response/proposal to move on to the second evaluation activity. If Canada's Evaluation Team deems that any one of the Technical Mandatory Requirement does not successfully pass the Evaluation Criteria, the Bidders entire response/proposal will be deemed Non-compliant and their proposal will not receive any further consideration. Only those responses/proposals that successfully pass the Technical Mandatory evaluation will proceed on to the Technical Rated evaluation.
 - 1.2. **Rated Technical Requirements:** Canada's Evaluation Team will only evaluate Rated Technical Requirements from those Bidders whose response/proposal successfully pass the Mandatory Technical evaluation. The Rated Technical Requirements are identified in Table A2. A rated requirement is not evaluated on a pass or fail basis, rather Canada's Evaluation Team will evaluate each rated requirement against the evaluation criteria so that points may be awarded. If a Bidder's rated requirement is awarded zero points the bid will not be deemed Non-compliant and Canada's Evaluation Team will continue to evaluate the remaining Rated Technical Requirements. The evaluation criteria that will be used to determine the number of points that will be awarded to each requirement is defined in the column titled Evaluation Criteria.
2. The requirements stated herein will be evaluated as follows:
 - a) Mandatory Requirements (Located in Table A 1):

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
RFP_001	The Bidder must submit a written proposal which must include a: <ul style="list-style-type: none"> • description of the CGF tool features; • description of the Bidder's software management process; and • definition of the software modifications required to make the Bidder's off-the-shelf CGF tool compliant with all requirements identified in the Statement of Work (SOW) Tables 1- 12. 		Canada's Evaluation Team will review the written proposal to ensure it includes a: <ul style="list-style-type: none"> • description of the CGF tool features; • description of the Bidder's software management process; and • definition of the software modifications required to make the Bidder's off-the-shelf CGF tool compliant with all requirements identified in the Statement of Work (SOW) Tables 1- 12 		
RFP_002	The Bidder must submit a User Manual in accordance with CGF_113		Canada's Evaluation Team will review the User Manual to confirm it is in accordance with CGF_113		
RFP_003	The Bidder must submit a, no- cost, 60-day trial version of their off-the-shelf CGF tool. The Bidders must submit and provide four (4) 60-day trial version licenses.		Canada's Evaluation Team will confirm the delivery of the four (4) 60-day trial CGF tool licenses.		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
RFP_004	<p>The Bidder must submit a compliance matrix, in Microsoft Office compatible format which identifies each requirement contained in the SOW Table 1 -12 (which indirectly includes both Mandatory and Rated Technical Requirements) and for each requirement identifies:</p> <ul style="list-style-type: none"> the level of compliance (Fully, Partial or None) the Bidder's off-the-shelf CGF tool currently provides; supporting justification, which identifies the associated CGF tool features or Contractor processes; The reference to the appropriate section of the software modifications document(Reference RFP_001) to achieve this requirement if the Bidder chooses Partial or None as the level of compliance; and either reference to the page/paragraph in the User Manual which states that the Bidder's off-the-shelf CGF tool meets the SOW Table 1-12 requirement or a scenario which Canada's Evaluation Team may reproduce on the CGF 60-day trial version tool that will confirm that the SOW Table 1-12 can requirement can be achieved. 		<p>Canada's Evaluation Team will review the compliance matrix ensure each Mandatory and Rated Technical Requirement is included and identifies:</p> <ul style="list-style-type: none"> the level of compliance (Fully, Partial or None) the Bidder's off-the-shelf CGF tool currently provides; supporting justification, which identifies the associated CGF tool features or Contractor processes; The reference to the appropriate section of the software modifications document(Reference RFP_001) to achieve this requirement if the Bidder chooses Partial or None as the level of compliance; and either reference to the page/paragraph in the User Manual which states that the Bidder's off-the-shelf CGF tool meets the SOW Table 1-12 requirement or a scenario which Canada's Evaluation Team may reproduce on the CGF 60-day trial version tool that will confirm that the SOW Table 1-12 can requirement can be achieved. 		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
RFP_005	<p>The Bidder must prepare and submit a single schedule and a costing plan covering all modifications associated with every rated requirement of Table A2 of this Attachment which the Bidder has self-identified as not fully compliant (Partial or None).</p> <p>Schedule: As a minimum the single schedule must include all modification activities. Each modification activity must include a start and finish date, the activity duration, and the relationship between successor and predecessor activities.</p> <p>Costing Plan: The Bidder may submit a single or multiple costing plan(s). The costing plan(s) must include of each modification activity identified in the schedule, the number of man-hours required to perform each modification activity, a firm price for each modification activity.</p>		<p>Canada's Evaluation Team will review the schedule and a costing plan to ensure it is compliant with RFP_005 and provides coverage of all modifications associated with every rated requirement of Table A2 of this Attachment which the Bidder has self-identified as not fully compliant (Partial or None).</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_001	The CGF tool must provide a graphical interface, which does not require software coding, to create, modify or run scenarios.		<p>The Bidder must provide written confirmation of compliance that the CGF tool provides a graphical interface, which does not require software coding, to create, modify or run scenarios.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_001 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_001 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_003	The CGF tool must provide a map-based user interface for scenario development by a non-specialist.		<p>The Bidder must provide written confirmation of compliance that the CGF tool provides a map-based user interface for scenario development by a non-specialist.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_003 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_003 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Client Ref. No. – N° de réf. De client W010V-17-A024	File No. – N° du dossier HAL-6-77164	CCC No./ N° CCC – FMS No/ N° VME

Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_004	The CGF tool must provide a user interface for the editing of entities, weapons and sensors by a non-specialist.		<p>The Bidder must provide written confirmation of compliance that the CGF tool provides a user interface for the editing of entities, weapons and sensors by a non-specialist.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_004 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_004 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_005	The CGF tool must provide a user interface for the editing of the terrain environment by a non-specialist.		<p>The Bidder must provide written confirmation of compliance that the CGF tool provides a user interface for the editing of the terrain environment by a non-specialist.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_005 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_005 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_006	The CGF tool's user interface must provide access to input and modify model parameters.		<p>The Bidder must provide written confirmation of compliance that the CGF tool's user interface provides access to input and modify model parameters.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_006 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_006 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_007	The User must be able to view individual entity states through the user interface.		<p>The Bidder must provide written confirmation of compliance that the User is able to view individual entity states through the user interface.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_007 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_007 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_008	The User, when developing scenarios, must not require any software coding knowledge to use the CGF tool.		<p>The Bidder must provide written confirmation of compliance that the User does not require any software coding knowledge to develop scenarios in the CGF tool.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_008 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_008 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_009	The User, when developing entities, must not require any software coding knowledge to use the CGF tool.		<p>The Bidder must provide written confirmation of compliance that the User does not require any software coding knowledge to develop entities in the CGF tool.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_009 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_009 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_010	The CGF tool must only require a standard keyboard and mouse user interface.		<p>The Bidder must provide written confirmation of compliance that the CGF tool only requires a standard keyboard and mouse user interface.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_010 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_010 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_011	The CGF tool must be able to run on a standard laptop or desktop PC.		<p>The Bidder must provide written confirmation of compliance that the CGF tool is able to run on a standard laptop or desktop PC.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_011 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_011 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_012	The CGF tool must be compatible with single screen operation, as in the case of a standalone laptop.		<p>The Bidder must provide written confirmation of compliance that the CGF tool is compatible with single screen operation.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_012 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_012 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_013	The CGF tool must operate in a Microsoft Windows environment.		<p>The Bidder must provide written confirmation of compliance that the CGF tool operates in a Microsoft Windows environment.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_013 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_013 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_015	The CGF tool must be able to run on virtual machines within a compute cluster environment.		<p>The Bidder must provide written confirmation of compliance that the CGF tool is able to run on virtual machines within a compute cluster environment.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_015 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_015 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_016	The CGF tool must be able to operate in a standalone environment, without the need for a network connection.		<p>The Bidder must provide written confirmation of compliance that the CGF tool is able to operate in a standalone environment, without the need for a network connection.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_016 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_016 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_017	The CGF tool must be able to operate in a distributed environment, where multiple machines running the CGF tool are networked together.		<p>The Bidder must provide written confirmation of compliance that the CGF tool is able to operate in a distributed environment, where multiple machines running the CGF tool are networked together.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_017 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_017 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_020	The CGF tool must be able to operate with other software, such as SADM, ODIN, MATLAB, SIMDIS™, and Office tools, on the Host machine.		<p>The Bidder must provide written confirmation of compliance that the CGF tool is able to operate with other software on the Host machine.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_020 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_020 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_022	The CGF tool must provide an IEEE 1278 DIS compatible interface.		<p>The Bidder must provide written confirmation of compliance that the CGF tool provides an IEEE 1278 DIS compatible interface.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_022 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_022 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_023	The CGF tool must be able to support at least three (3) simultaneous network interfaces, such as an IEEE 1278 DIS output, other CGF and InterMAP.		<p>The Bidder must provide written confirmation of compliance that the CGF tool is able to support at least three (3) simultaneous network interfaces, such as an IEEE 1278 DIS output, other CGF and InterMAP.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_023 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_023 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_024	When run in a distributed environment, each instance of the CGF tool must be able to support at least 2 (two) simultaneous network interfaces.		<p>The Bidder must provide written confirmation of compliance that each instance of the CGF tool is able to support at least 2 (two) simultaneous network interfaces when run in a distributed environment.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_024 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_024 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_035	The User must be able to create new platforms, weapons, threats and sensors beyond those that come with the original acquisition without the tool Bidder support.	<p>The Bidder must provide written confirmation of compliance that the User is able to create new platforms, weapons, threats and sensors beyond those that come with the original acquisition without the tool Bidder support</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_035 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_035 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>			

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_053	The CGF tool must be able to report velocities of air entities as X-Vel, Y-Vel and Z-Vel (Metres/Second).		<p>The Bidder must provide written confirmation of compliance that the CGF tool is able to report velocities of air entities as X-Vel, Y-Vel and Z-Vel (Metres/Second).</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_053 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_053 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_054	The CGF tool must be able to report position of air entities as X, Y, Z (Metres).		<p>The Bidder must provide written confirmation of compliance that the CGF tool is able to report position of air entities as X, Y, Z (Metres).</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_054 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_054 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_058	The CGF tool must be able to model land installations, including the sensors, weapons, behaviour and tactics.		<p>The Bidder must provide written confirmation of compliance that the CGF tool is able to model land installations, including the sensors, weapons, behaviour and tactics.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_058 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_058 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

Solicitation No. – N° de l'invitation W010V-17A024/A	Amd. No – N° de la modif.	Buyer ID – Id de l'acheteur HAL218
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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_059	The CGF tool must be able to represent land entities with 3-DOF.		<p>The Bidder must provide written confirmation of compliance that the CGF tool is able to represent land entities with 3-DOF.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_059 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_059 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

Solicitation No. – N° de l'invitation W010V-17A024/A	Amd. No – N° de la modif.	Buyer ID – Id de l'acheteur HAL218
Client Ref. No. – N° de réf. De client W010V-17-A024	File No. – N° du dossier HAL-6-77164	CCC No./ N° CCC – FMS No/ N° VME

Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_062	The CGF tool must be able to report velocities of land entities as X-Vel and Y-Vel (Metres/Second)		<p>The Bidder must provide written confirmation of compliance that the CGF tool is able to report velocities of land entities as X-Vel and Y-Vel (Metres/Second)</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_062 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_062 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Client Ref. No. – N° de réf. De client W010V-17-A024	File No. – N° du dossier HAL-6-77164	CCC No./ N° CCC – FMS No/ N° VME

Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_063	The CGF tool must be able to report the position of land entities as X, Y (Metres).		<p>The Bidder must provide written confirmation of compliance that the CGF tool is able to report the position of land entities as X, Y (Metres).</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_063 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_063 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

Solicitation No. – N° de l'invitation W010V-17A024/A	Amd. No – N° de la modif.	Buyer ID – Id de l'acheteur HAL218
Client Ref. No. – N° de réf. De client W010V-17-A024	File No. – N° du dossier HAL-6-77164	CCC No./ N° CCC – FMS No/ N° VME

Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_070	The CGF tool must be able to report velocities of sea surface entities as X-Vel, Y-Vel and Z-Vel (Metres/Second)		<p>The Bidder must provide written confirmation of compliance that the CGF tool is able to report velocities of sea surface entities as X-Vel, Y-Vel and Z-Vel (Metres/Second).</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_070 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_070 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

Solicitation No. – N° de l'invitation W010V-17A024/A	Amd. No – N° de la modif.	Buyer ID – Id de l'acheteur HAL218
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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_071	The CGF tool must be able to report position of sea surface entities as X, Y, Z (Metres)		<p>The Bidder must provide written confirmation of compliance that the CGF tool is able to report position of sea surface entities as X, Y, Z (Metres).</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_071 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_071 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_078	The CGF tool must be able to report velocities of sub-surface entities as X-Vel, Y-Vel and Z-Vel (Metres/Second)		<p>The Bidder must provide written confirmation of compliance that the CGF tool is able to report velocities of sub-surface entities as X-Vel, Y-Vel and Z-Vel (Metres/Second).</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_078 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_078 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Client Ref. No. – N° de réf. De client W010V-17-A024	File No. – N° du dossier HAL-6-77164	CCC No./ N° CCC – FMS No/ N° VME

Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_079	The CGF tool must be able to report position of sub-surface entities as X, Y, Z (Metres)		<p>The Bidder must provide written confirmation of compliance that the CGF tool is able to report position of sub-surface entities as X, Y, Z (Metres).</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_079 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_079 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_081	In a single scenario, the CGF tool must be capable of representing a geographic area of up to 8750NM ²		<p>The Bidder must provide written confirmation of compliance that the CGF tool must be capable of representing a geographic area of up to 8750NM², in a single scenario.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_081 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_081 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_089	The CGF tool must allow scenarios and vignettes to be distributed across multiple CGF tool instances, allowing specific entities or entity groups to be distributed.		<p>The Bidder must provide written confirmation of compliance that the CGF tool allows scenarios and vignettes to be distributed across multiple CGF tool instances, allowing specific entities or entity groups to be distributed.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_089 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_089 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_090	The CGF tool must be configurable to coordinate multiple CGF tool instances from a single master CGF tool instance, to support a distributed scenario or vignette.		<p>The Bidder must provide written confirmation of compliance that the CGF tool is configurable to coordinate multiple CGF tool instances from a single master CGF tool instance to support a distributed scenario or vignette.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_090 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_090 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_091	The CGF tool must be able to facilitate terrain file generation without requiring any extra tools not included with the CGF tool, with the ability to edit terrain objects		<p>The Bidder must provide written confirmation of compliance that the CGF tool is able to facilitate terrain file generation without requiring any extra tools not included with the CGF tool, with the ability to edit terrain objects.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_091 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_091 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_096	The CGF tool must be capable of displaying map data from anywhere in the world preferably using the WGS-84 datum		<p>The Bidder must provide written confirmation of compliance that the CGF tool is capable of displaying map data from anywhere in the world.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_096 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_096 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

Solicitation No. – N° de l'invitation W010V-17A024/A	Amd. No – N° de la modif.	Buyer ID – Id de l'acheteur HAL218
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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_097	The CGF tool must be capable of incorporating data and information associated with industry standard GIS and mapping tools, such as Global Mapper and ESRI.		<p>The Bidder must provide written confirmation of compliance that the CGF tool is capable of incorporating data and information associated with industry standard GIS and mapping tools.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_097 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_097 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_098	The CGF tool must allow any given scenario or vignette to be 100% repeatable, ensuring results can be recreated.		<p>The Bidder must provide written confirmation of compliance that the CGF tool allows any given scenario or vignette to be 100% repeatable, ensuring results can be recreated.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_098 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_098 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_099	The CGF tool must be capable of producing and exporting data files in a format usable by Microsoft Office tools.		<p>The Bidder must provide written confirmation of compliance that the CGF tool is capable of producing and exporting data files in a format usable by Microsoft Office tools.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_099 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_099 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_101	The CGF tool must allow for scenario modification, including entity behaviour, at run time		<p>The Bidder must provide written confirmation of compliance that the CGF tool allows for scenario modification, including entity behaviour, at run time.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_101 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_101 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_104	The CGF tool must be capable of supporting single run, repeatable experiments.		<p>The Bidder must provide written confirmation of compliance that the CGF tool is capable of supporting single run, repeatable experiments.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_104 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_104 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

Solicitation No. – N° de l'invitation W010V-17A024/A	Amd. No – N° de la modif.	Buyer ID – Id de l'acheteur HAL218
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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_113	The CGF tool (including all updated deliveries of the CGF tool) must be supplied with detailed documentation that describes operation of the User Interface (UI) and function of the underlying algorithms and models, as well as description of the installation and configuration of the system		<p>The Bidder must provide written confirmation of compliance that the CGF tool is supplied with detailed documentation that describes operation of the User Interface (UI) and function of the underlying algorithms and models, as well as description of the installation and configuration of the system.</p> <p>AND</p> <p>Canada's Evaluation Team will review the User Manual provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the User Manual does not describes operation of the User Interface (UI) and function of the underlying algorithms and models, as well as description of the installation and configuration of the system.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_114	The CGF tool must include help features for the user interface and all functionality		<p>The Bidder must provide written confirmation of compliance that the CGF tool includes help features for the user interface and all functionality.</p> <p>AND</p> <p>Canada's Evaluation Team will cross reference this CGF_114 requirement to the User Manual reference provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the reference to the User Manual does not confirm that this requirement is included in the Bidder's CGF</p> <p>OR</p> <p>Canada's Evaluation Team will cross reference this CGF_114 requirement to the scenario provided in requirement RFP_004.</p> <p>This requirement will be deemed non-compliant if Canada's Evaluation Team deems that the provided scenario, when executed on the 60-day trial version, does not confirm that this requirement is included in the Bidder's CGF.</p>		

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Req. Id	TECHNICAL REQUIREMENTS	MANDATORY	EVALUATION CRITERIA	MET (Y/N)	REFERENCE
CGF_115	The CGF tool must be accompanied by documentation and training that includes basic level introduction, tutorials and specialized descriptions.		The Bidder must provide written confirmation of compliance that the CGF tool is accompanied by documentation and training that includes basic level introduction, tutorials and specialized descriptions.		
CGF_116	The Contractor must provide CGF tool documentation that covers the following aspects: scenario development, administrator, basic user, importance of configuration parameters and associated interdependencies		The Bidder must provide written confirmation of compliance that the CGF tool documentation covers the following aspects: scenario development, administrator, basic user, importance of configuration parameters and associated interdependencies		

Table A 1 – Technical Mandatory Requirements

b) Point-Rated Requirements (Located in Table A 2): (MAX 2144 PTS)

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Canada's Evaluation Team will analyse the team resume for the average number of years' experience with the proposed CGF Tool, within each of the four functional areas and will award a maximum of 200 points, as follows:

1. Project Management:

- 0 PTS under 1 year; or
- 25 PTS between 1 and 3 years; or
- 40 PTS between 3 and 5 years; or
- 50 PTS for 5 years or more.

2. Software Development:

- 0 PTS under 1 year; or
- 30 PTS between 1 and 3 years; or
- 45 PTS between 3 and 5 years; or
- 60 PTS for 5 years or more.

3. Software Integration:

- 0 PTS under 1 year; or
- 30 PTS between 1 and 3 years; or
- 45 PTS between 3 and 5 years; or
- 60 PTS for 5 years or more.

4. Software Verification, Validation & Acceptance:

- 0 PTS under 1 year; or
- 15 PTS between 1 and 3 years; or

The Bidder must provide a team resume that describes the experience and capability of development team members with the proposed CGF tool, both depth of understanding and years of experience.

The resume must breakdown each team members experience with the proposed CGF Tool into four functional areas, Project Management, Software Development, Software Integration and Software Verification, Validation and Acceptance.

RFP_006

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
			<ul style="list-style-type: none"> • 20 PTS between 3 and 5 years; or • 30 PTS for 5 years or more. 		

RFP_007

The Bidder must provide Company profile that describes the relevant years' experience, competence proven by similar or related successfully delivered work, and risk of non-performance, commitment to this field of work.

As a minimum the profile must identify the companies experience within five areas, Computer Generated Forces, Modelling & Simulation of military scenarios, Interoperability and Integration with other tools & systems, Military Command & Control and Naval Warfare.

Canada's Evaluation Team will analyse the company profile for the number of years' experience with the proposed CGF Tool, within each of the five areas and will award a maximum of 200 points, as follows:

1. Computer Generated Forces:
 - 0 PTS under 1 year; or
 - 20 PTS between 1 and 5 years; or
 - 30 PTS between 5 and 10 years; or
 - 40 PTS for 10 years or more.
2. Modelling & Simulation of military scenarios:
 - 0 PTS under 1 year; or
 - 30 PTS between 1 and 5 years; or
 - 45 PTS between 5 and 10 years; or
 - 60 PTS for 10 years or more.
3. Interoperability and Integration with other tools & systems:
 - 0 PTS under 1 year; or
 - 30 PTS between 1 and 5 years; or
 - 45 PTS between 5 and 10 years; or
 - 60 PTS for 10 years or more.
4. Military Command & Control:
 - 0 PTS under 1 year; or
 - 12 PTS between 1 and 5 years; or

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
			<ul style="list-style-type: none"> • 20 PTS between 5 and 10 years; or • 25 PTS for 10 years or more. <p>5. Naval Warfare:</p> <ul style="list-style-type: none"> • 0 PTS under 1 year; or • 7 PTS between 1 and 5 years; or • 10 PTS between 5 and 10 years; or • 15 PTS for 10 years or more. 		

Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
RFP_008	<p>The Bidder must provide a Software Development Plan that provides the proposed software change plan for each point-rated requirement that is not fully compliant in the off-the-shelf tool.</p> <p>The Software Development Plan must include:</p> <ul style="list-style-type: none"> • a description of the company's software change process; • a technical and schedule risk assessment including mitigation; and • a technical feasibility assessment of the described software changes. 	<p>Canada's Evaluation Team will assess the maturity of the software change processes described within the Software Development Plan and assess its compatibility with the following CFMWC integration and test procedures and will award a maximum of 160 points, as follows:</p> <ul style="list-style-type: none"> • Software problem reporting system; • Telephone support ; • Remote testing via internet link; • Software fault codes; • Software trace reports; • Interim software releases; • Virtual machine deployment; and • Onsite development environment and SW build process. <p>20 points will be awarded for each of the above points covered in the Software Development Plan.</p> <p>Canada's Evaluation Team will assess the level of technical and schedule risk, and technical feasibility of the describe software changes and award 144 points. The Evaluation Team will deduct 2 points for each point-rated requirement that is not fully compliant in the off-the-shelf tool and not covered in the Software Development Plan risk assessment.</p>			

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_00 2	The user interface must be logical, well organized and allow access to all model parameters.		<p>Canada's Evaluation Team will cross reference this CGF_002 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify that the user interface allows access to model parameters to a detailed level; or • 20 points if the User Manual or scenario shows that the user interface allows access to model parameters to a detailed level. <p>Canada's Evaluation Team will deduct 1 point for each occurrence of inability to access model parameters</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_01 4	The CGF tool must be portable to a Linux environment.		<p>Canada's Evaluation Team will cross reference this CGF_014 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool is portable to a Linux environment; • 10 points if the scenario demonstrates that the CGF tool is portable to a Linux environment, but cannot run to completion; or • 20 points if the scenario demonstrates that the CGF tool is portable to a Linux environment and the scenario can be run to completion. 		
CGF_01 8	The CGF tool must be able to run in a Monte Carlo mode		<p>Canada's Evaluation Team will cross reference this CGF_018 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool can run in a Monte Carlo mode; or • 20 points if the User Manual or scenario states/demonstrates that the CGF tool can run in a Monte Carlo mode. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_01 9	A single CGF tool license must be able to spawn multiple instances (INSERT LARGER VALUE OF 500 OR CLAIM FROM WINNING BIDDERS PROPOSAL) of CGF runtimes, for Monte Carlo operation.		<p>Canada's Evaluation Team will cross reference this CGF_019 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool can run at least 250 instances; or • 5 points if the User Manual or scenario identifies /demonstrates that the CGF tool can run between 250 and 499 instances; or • 10 points if the User Manual or scenario identifies /demonstrates that the CGF tool can run between 500 and 749 instances; or • 15 points if the User Manual or scenario identifies /demonstrates that the CGF tool can run between 750 and 999 instances; or • 20 points if the User Manual or scenario identifies /demonstrates that the CGF tool can run 1000 or more instances. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_02 1	The CGF tool must provide a bidirectional interface to InterMAP.		<p>Canada's Evaluation Team will cross reference this CGF_021 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario identifies/demonstrates that the CGF tool provides NO interface to InterMAP; or • 8 points if the User Manual or scenario identifies/demonstrates that the CGF tool provides a Unidirectional interface to InterMAP; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool provides a Bidirectional interface to InterMAP 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_025	The CGF tool must be able support multiple simultaneous network interfaces.		<p>Canada's Evaluation Team will cross reference this CGF_025 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool can support multiple simultaneous network interfaces; or • 20 points if the User Manual or scenario states/demonstrates that the CGF tool can support multiple simultaneous network interfaces. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_026	The CGF tool must be able to interoperate with other CGF, Exercise Simulation & Wargaming and visualisation tools, via IEEE 1278 DIS or IEEE 1516 HLA (with RPR FOM v2 D17) protocols.		<p>Canada's Evaluation Team will cross reference this CGF_026 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario identifies/demonstrates that the CGF is not able to interoperate via IEEE 1278 DIS or IEEE 1516 HLA (with RPR FOM v2 D17); or • 5 points if the User Manual or scenario identifies/demonstrates that the CGF is able to interoperate via either IEEE 1278 DIS or IEEE 1516 HLA (with RPR FOM v2 D17), but cannot run to completion; or • 10 points if the User Manual or scenario identifies/demonstrates that the CGF is able to interoperate via either IEEE 1278 DIS or IEEE 1516 HLA (with RPR FOM v2 D17), and the scenario can be run to completion; or • 15 points if the User Manual or scenario identifies/demonstrates that the CGF is able to interoperate via both IEEE 1278 DIS and IEEE 1516 HLA (with RPR FOM v2 D17), but cannot run to completion; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF is able to interoperate via both IEEE 1278 DIS and IEEE 1516 HLA (with RPR FOM v2 D17), and the scenario can be run to completion. 		

Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_02 7	<p>The CGF tool must provide an Application Programming Interface (API), which provides features, such as:</p> <ul style="list-style-type: none"> • Simulation modification & control; • Entity modification & control; • Weather modification & control; • Interface modification & control; and • Display modification & control. 		<p>Canada's Evaluation Team will cross reference this CGF_027 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool provides an Application Programming Interface (API); or • 20 points if the scenario demonstrates that the CGF provides an Application Programming Interface (API) and the scenario can be run to completion. <p>Canada's Evaluation Team will deduct 4 points for each API feature that is not found within the API.</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_028	The CGF tool must be able to interoperate with SADM, via the InterMAP interface.		<p>Canada's Evaluation Team will cross reference this CGF_028 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario identifies/demonstrates that the CGF is not able to interoperate with SADM; or • 5 points if the User Manual or scenario identifies/demonstrates that the CGF is able to interoperate with SADM directly, but cannot run to completion; or • 10 points if the User Manual or scenario identifies/demonstrates that the CGF is able to interoperate with SADM directly, and the scenario can be run to completion; or • 15 points if the User Manual or scenario identifies/demonstrates that the CGF is able to interoperate with SADM via the InterMAP interface, but cannot run to completion; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF is able to interoperate with SADM via the InterMAP interface, and the scenario can be run to completion. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_029	The CGF tool must be able to interoperate with ODIN, via the InterMAP interface.		<p>Canada's Evaluation Team will cross reference this CGF_029 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario identifies/demonstrates that the CGF is not able to interoperate with ODIN; or • 5 points if the User Manual or scenario identifies/demonstrates that the CGF is able to interoperate with ODIN directly, but cannot run to completion; or • 10 points if the User Manual or scenario identifies/demonstrates that the CGF is able to interoperate with ODIN directly, and the scenario can be run to completion; or • 15 points if the User Manual or scenario identifies/demonstrates that the CGF is able to interoperate with ODIN via the InterMAP interface, but cannot run to completion; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF is able to interoperate with ODIN via the InterMAP interface, and the scenario can be run to completion. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_030	The CGF tool must be able to interface with NRL SIMDIS™, using an IEEE 1278 DIS interface.		<p>Canada's Evaluation Team will cross reference this CGF_030 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario identifies/demonstrates that the CGF is not able to interoperate with SIMDIS™; or • 5 points if the User Manual or scenario identifies/demonstrates that the CGF is able to interoperate with SIMDIS™ directly, but cannot run to completion; or • 10 points if the User Manual or scenario identifies/demonstrates that the CGF is able to interoperate with SIMDIS™ directly, and the scenario can be run to completion; or • 15 points if the User Manual or scenario identifies/demonstrates that the CGF is able to interoperate with SIMDIS™ via the IEEE 1278 DIS interface, but cannot run to completion; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF is able to interoperate with SIMDIS™ via the IEEE 1278 DIS interface, and the scenario can be run to completion. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_03 1	The CGF tool must be capable of running and participating in time-managed simulations to facilitate accurate synchronization with external applications.		<p>Canada's Evaluation Team will cross reference this CGF_031 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool is capable of running and participating in time-managed simulations; or • 10 points if the scenario demonstrates that the CGF tool is capable of running and participating in time-managed simulations, but cannot run to completion; or • 20 points if the scenario demonstrates that the CGF tool is capable of running and participating in time-managed simulations and the scenario can be run to completion. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_03 2	The CGF tool must be capable of interoperating with OTH_Gold.		<p>Canada's Evaluation Team will cross reference this CGF_032 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool is capable of interoperating with OTH_Gold; or • 10 points if the scenario demonstrates that the CGF tool is capable of interoperating with OTH_Gold, but with a subset of the messages; or • 20 points if the scenario demonstrates that the CGF tool is capable of interoperating with OTH_Gold with the full message set. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_03 3	The CGF tool must be capable of representing personnel, platforms, communications, weapons, sensors and threats.		<p>Canada's Evaluation Team will cross reference this CGF_033 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify that the CGF tool is capable of representing any of the entity types in CGF_033; or • 20 points if the User Manual or scenario shows that the CGF tool is capable of representing the entity types in CGF_033. <p>Canada's Evaluation Team will deduct 3 points for each occurrence of inability to represent a listed entity type.</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_034	The CGF tool must come with representative (default) entities, weapons, sensors and systems for friendly, enemy and neutral forces, including damage, movement, tactical models and behavior, both individual and group (for example, a convoy).		<p>Canada's Evaluation Team will cross reference this CGF_034 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify that the CGF tool includes default representations of any of the entity types listed in CGF_034; or • 20 points if the User Manual or scenario shows that the CGF tool includes default representations of the entity types listed in CGF_034. <p>Canada's Evaluation Team will deduct 2 points for each occurrence of inability to represent a listed entity type.</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_03 6	The CGF tool must allow sensor performance to be simulated using probability of detection (Pd) curves.		<p>Canada's Evaluation Team will cross reference this CGF_036 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool allows sensor performance to be simulated using probability of detection (Pd) curves; or • 20 points if the User Manual or scenario states/demonstrates that the CGF tool allows sensor performance to be simulated using probability of detection (Pd) curves. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_03 7	The CGF tool must allow effector performance to be simulated using probability of kill (Pk) curves.		<p>Canada's Evaluation Team will cross reference this CGF_037 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool allows effector performance to be simulated using probability of kill (Pk) curves; or • 20 points if the User Manual or scenario states/demonstrates that the CGF tool allows effector performance to be simulated using probability of kill (Pk) curves. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_038	The CGF tool must allow simulated operator command and control (C2) decision and interaction delays to be modelled.		<p>Canada's Evaluation Team will cross reference this CGF_038 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool allows simulated operator command and control (C2) decision and interaction delays to be modelled; or • 20 points if the User Manual or scenario states/demonstrates that the CGF tool allows simulated operator command and control (C2) decision and interaction delays to be modelled. 		

Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_03 9	<p>The CGF tool must have an integral method (such as plug-in mechanism or GUI) to allow extension to, modification of and/or replacement of models within the CGF, including changes to entity:</p> <ul style="list-style-type: none"> • type; • kinematic performance; • manning levels; • reliability & maintainability; • domain (air, land, sea surface, sea sub-surface, or space); • vulnerability; • lethality; • detectability aka signature; • sensor & weapon performance; and • fuel efficiency 		<p>Canada's Evaluation Team will cross reference this CGF_039 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool has an integral method to allow extensions within the CGF; or • 20 points if the User Manual or scenario states/demonstrates that the CGF tool has an integral method to allow extensions within the CGF. <p>Canada's Evaluation Team will deduct 2 points for each occurrence of inability to modify a listed entity attribute.</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_040	The User must have ability to create and assign logical sets of behaviours, such as a surface ship Torpedo Counter Measures (TCM), to specific entity types and operating environments so that context-sensitive behaviours are presented for a specific entity type via the user interface.		<p>Canada's Evaluation Team will cross reference this CGF_040 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the User has the ability to create and assign any behaviour to any entity models; or • 10 points if the User Manual or scenario states/demonstrates that the User has the ability to create and assign non-context-sensitive behaviour to any entity model; or • 20 points if the User Manual or scenario states/demonstrates that the User has the ability to create and assign context-sensitive behaviour to the appropriate entity model. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_04 1	The CGF tool must allow users to determine speed and direction of entities, detection of other entities, and fire effectors as necessary		<p>Canada's Evaluation Team will cross reference this CGF_041 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF allows users the abilities listed in CGF_041; or • 20 points if the User Manual or scenario states/demonstrates that the CGF allows users the abilities listed in CGF_041. <p>Canada's Evaluation Team will deduct 4 points for each occurrence of inability of the User to action items listed in CGF_041.</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_04 2	The CGF tool must be capable of representing entities, behaviours and effects, as well as objects including navigational hazards and markers such as roads, bridges, buoys, reefs and swamps		<p>Canada's Evaluation Team will cross reference this CGF_042 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify that the CGF tool is capable of representing any of the entity types listed in CGF_042; or • 20 points if the User Manual or scenario shows that the CGF tool is capable of representing the entity types listed in CGF_042. <p>Canada's Evaluation Team will deduct 3 points for each occurrence of inability to represent a listed entity type.</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_04 3	The CGF tool must allow for interfacing with C2 systems, such that the C2 system can initialize, configure and control the CGF system through a standard BML interface (at least one of C-BML, GCCS or JC3IEDM/MIP)		<p>Canada's Evaluation Team will cross reference this CGF_043 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool allows for interfacing with C2 systems, such that the C2 system can initialize, configure and control the CGF system through a standard BML interface; or • 10 points if the User Manual or scenario states/demonstrates that the CGF tool allows for interfacing with C2 systems, such that the C2 system can initialize, configure and control the CGF system <u>without</u> a standard BML interface; or • 20 points if the User Manual or scenario states/demonstrates that the CGF tool allows for interfacing with C2 systems, such that the C2 system can initialize, configure and control the CGF system <u>through</u> a standard BML interface listed in CGF_043. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_04 4	The CGF tool must be capable of representing damage modelling for friendly, opposing and neutral forces		<p>Canada's Evaluation Team will cross reference this CGF_044 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify that the CGF tool is capable of representing damage modelling; or • 20 points if the User Manual or scenario shows that the CGF tool is capable of representing damage modelling. <p>Canada's Evaluation Team will deduct 6 points for each force type (friendly, opposing, and neutral), for which damage modelling <u>cannot</u> be represented.</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_04 5	The CGF tool must be able to model the effects of personnel morale and training effectiveness, at a platform level.		<p>Canada's Evaluation Team will cross reference this CGF_045 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify that the CGF tool is able to model the effects of personnel morale and training effectiveness, at a platform level; or • 10 points if the User Manual or scenario shows that the CGF tool is able to model the effects of <u>either</u> personnel morale <u>or</u> training effectiveness, at a platform level; or • 20 points if the User Manual or scenario shows that the CGF tool is able to model the effects of <u>both</u> personnel morale <u>and</u> training effectiveness, at a platform level. 		

Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_04 6	<p>The CGF tool must be able to model the effects of logistics, such as:</p> <ul style="list-style-type: none"> • Operational Availability (Ao); • Equipment Mean Time Between Failure (MTBF); • Equipment Mean Time To Repair (MTTR); • Equipment Logistics Delay Time (MLDT); and • Equipment Level of Repair (1st Line, 2nd Line, Depot and Non Repairable). 		<p>Canada's Evaluation Team will cross reference this CGF_046 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify that the CGF tool is capable of representing effects of logistics; or • 20 points if the User Manual or scenario shows that the CGF tool is capable of representing effects of logistics. <p>Canada's Evaluation Team will deduct 4 points for each logistics property that cannot be represented.</p>		

Canada's Evaluation Team will cross reference this CGF_047 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.

Canada's Evaluation Team will award:

- 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool can update at a rate of 10Hz or greater, within an area of interest of 350NM² or greater; or
- 4 points if the User Manual or scenario identifies /demonstrates that the CGF tool can update less than 250 entities, at a rate of 10Hz or greater, within an area of interest of 350NM² or greater; or
- 8 points if the User Manual or scenario identifies /demonstrates that the CGF tool can update between 250 and 499 entities, at a rate of 10Hz or greater, within an area of interest of 350NM² or greater; or
- 12 points if the User Manual or scenario identifies /demonstrates that the CGF tool can update between 500 and 749 entities, at a rate of 10Hz or greater, within an area of interest of 350NM² or greater; or
- 16 points if the User Manual or scenario identifies /demonstrates that the CGF tool can update between 750 and 999 entities, at a rate of 10Hz or greater, within an area of interest of 350NM² or greater; or
- 20 points if the User Manual or scenario identifies /demonstrates that the CGF tool can update 1000 entities or greater, at a rate of 10Hz or greater, within an area of interest of 350NM² or greater.

The User must be able to define a sub area of the CGF tool map as a Modelling Area Of Interest (MAOI) of at least 350NM², where data associated with (INSERT LARGER VALUE OF 500 OR CLAIM FROM WINNING BIDDERS PROPOSAL) entities within the region will be updated at minimum 10Hz.

CGF_04
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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_048	The CGF tool must allow at least 50 air entities to be defined as high data rate, which will enable updates at a minimum of 60Hz within the MAOI, via the InterMAP Interface.		<p>Canada's Evaluation Team will cross reference this CGF_048 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool allows air entities to be defined as high data rate; or • 10 points if the User Manual or scenario identifies/demonstrates that the CGF tool allows a maximum of 25 air entities to be updated at a minimum of 60Hz within the MAOI; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool allows a minimum of 50 air entities to be updated at a minimum of 60Hz within the MAOI, via the InterMAP interface. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_049	The CGF tool must be able to model aircraft, including the kinematics, sensors, weapons, behaviour and tactics		<p>Canada's Evaluation Team will cross reference this CGF_049 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool is able to model aircraft; or • 20 points if the User Manual or scenario states/demonstrates that the CGF tool is able to model aircraft. <p>Canada's Evaluation Team will deduct 4 points for each occurrence of inability to model the behaviours and subsystems listed in CGF_049.</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_050	The CGF tool must be able to represent air entities with 6-DOF.		<p>Canada's Evaluation Team will cross reference this CGF_050 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario identifies/demonstrates that the CGF tool is only able to represent air entities with 3-DOF; or • 10 points if the User Manual or scenario identifies/demonstrates that the CGF tool is only able to represent air entities with 5-DOF; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool is able to represent air entities with 6-DOF. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_05 1	The CGF tool must be able to report orientation of air entities as Euler Angles (Radians).		<p>Canada's Evaluation Team will cross reference this CGF_051 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool is able to report orientation of air entities as Euler Angles (Radians); or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool is able to report orientation of air entities as Euler Angles (Radians). 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_05 2	The CGF tool must be able to report orientation rates of air entities as Euler Angle Rates (Radians/Second).		<p>Canada's Evaluation Team will cross reference this CGF_052 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool is able to report orientation rates of air entities as Euler Angle Rates (Radians/Second); or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool is able to report orientation rates of air entities as Euler Angle Rates (Radians/Second). 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_05 5	The CGF tool must provide updates of at least 10 land entities defined as observers at a minimum of 5Hz within the MAOI, via the InterMAP interface.		<p>Canada's Evaluation Team will cross reference this CGF_055 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool provides updates of land entities defined as observers at a minimum of 5Hz; or • 10 points if the User Manual or scenario identifies/demonstrates that the CGF tool allows a maximum of 5 land entities to be updated at a minimum of 5Hz within the MAOI; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool allows a minimum of 10 land entities to be updated at a minimum of 5Hz within the MAOI, via the InterMAP interface. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_05 6	The CGF tool must provide updates of at least 20 land entities not defined as observers at a minimum of 1Hz within the MAOI, via the InterMAP interface.		<p>Canada's Evaluation Team will cross reference this CGF_056 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool provides updates of land entities not defined as observers at a minimum of 1Hz; or • 10 points if the User Manual or scenario identifies/demonstrates that the CGF tool allows a maximum of 10 land entities, not defined as observers, to be updated at a minimum of 1Hz within the MAOI; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool allows a minimum of 20 land entities, not defined as observers, to be updated at a minimum of 1Hz within the MAOI, via the InterMAP interface. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_05 7	The CGF tool must be able to model land vehicles, including the kinematics, sensors, weapons, behaviour and tactics		<p>Canada's Evaluation Team will cross reference this CGF_057 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool is able to model land vehicles; or • 20 points if the User Manual or scenario states/demonstrates that the CGF tool is able to model land vehicles. <p>Canada's Evaluation Team will deduct 4 points for each occurrence of inability to model the behaviours and subsystems listed in CGF_057.</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_060	The CGF tool must be able to report orientation of land entities as Euler Angles (Radians)		<p>Canada's Evaluation Team will cross reference this CGF_060 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool is able to report orientation of land entities as Euler Angles (Radians); or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool is able to report orientation of land entities as Euler Angles (Radians). 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_06 1	The CGF tool must be able to report orientation rates of land entities as Euler Angle Rates (Radians/Second)		<p>Canada's Evaluation Team will cross reference this CGF_061 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool is able to report orientation rates of land entities as Euler Angle Rates (Radians/Second); or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool is able to report orientation rates of land entities as Euler Angle Rates (Radians/Second). 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_06 4	The CGF tool must allow at least 30 sea surface entities to be defined as high data rate, which will enable updates at a minimum of 60 Hz within the MAOI, via the InterMAP Interface.		<p>Canada's Evaluation Team will cross reference this CGF_064 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool allows sea surface entities to be updated at a minimum of 60Hz within the MAOI; or • 10 points if the User Manual or scenario identifies/demonstrates that the CGF tool allows a maximum of 15 sea surface entities to be updated at a minimum of 60Hz within the MAOI; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool allows at least 30 sea surface entities to be updated at a minimum of 60Hz within the MAOI, via the InterMAP interface. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_06 5	The CGF tool must update at least 20 sea surface entities, not defined as high data rate, at a minimum of 10Hz within the MAOI, via the InterMAP Interface.		<p>Canada's Evaluation Team will cross reference this CGF_065 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool updates sea surface entities at a minimum of 10Hz; or • 10 points if the User Manual or scenario identifies/demonstrates that the CGF tool allows a maximum of 10 sea surface entities to be updated at a minimum of 10Hz within the MAOI; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool allows 20 sea surface entities to be updated at a minimum of 10Hz within the MAOI, via the InterMAP Interface. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_06 6	The CGF tool must be able to model sea surface entities, including the kinematics, sensors, weapons, behaviour and tactics		<p>Canada's Evaluation Team will cross reference this CGF_066 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool is able to model sea surface entities; or • 20 points if the User Manual or scenario states/demonstrates that the CGF tool is able to model sea surface entities. <p>Canada's Evaluation Team will deduct 4 points for each occurrence of inability to model the behaviours and subsystems listed in CGF_066.</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_06 7	The CGF tool must be able to represent sea surface entities with 6-DOF.		<p>Canada's Evaluation Team will cross reference this CGF_067 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario identifies/demonstrates that the CGF tool is only able to represent sea surface entities with 3-DOF; or • 10 points if the User Manual or scenario identifies/demonstrates that the CGF tool is only able to represent sea surface entities with 5-DOF; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool is able to represent sea surface entities with 6-DOF. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_068	The CGF tool must be able to report orientation of sea surface entities as Euler Angles (Radians)		<p>Canada's Evaluation Team will cross reference this CGF_068 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool is able to report orientation of sea surface entities as Euler Angles (Radians); or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool is able to report orientation of sea surface entities as Euler Angles (Radians). 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_06 9	The CGF tool must be able to report orientation rates of sea surface entities as Euler Angle Rates (Radians/Second)		<p>Canada's Evaluation Team will cross reference this CGF_069 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool is able to report orientation rates of sea surface entities as Euler Angle Rates (Radians/Second); or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool is able to report orientation rates of sea surface entities as Euler Angle Rates (Radians/Second). 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_07 2	The CGF tool must allow at least 5 sub-surface entities to be defined as high data rate, which will enable updates at a minimum of 60Hz within the MAOI, via the InterMAP Interface.		<p>Canada's Evaluation Team will cross reference this CGF_072 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool allows sub-surface entities to be updated at a minimum of 60 Hz; or • 10 points if the User Manual or scenario identifies/demonstrates that the CGF tool allows a maximum of 3 sub-surface entities to be updated at a minimum of 60Hz within the MAOI; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool allows a minimum of 5 sub-surface entities to be updated at a minimum of 60Hz within the MAOI, via the InterMAP interface. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_07 3	The CGF tool must update at least 5 sub-surface entities, not defined as high data rate, at a minimum of 10Hz within the MAOI, via the InterMAP Interface.		<p>Canada's Evaluation Team will cross reference this CGF_073 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool allows sub-surface entities to be updated at a minimum of 10Hz; or • 10 points if the User Manual or scenario identifies/demonstrates that the CGF tool allows a maximum of 3 sub-surface entities to be updated at a minimum of 10Hz within the MAOI; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool allows a minimum of 5 sub-surface entities to be updated at a minimum of 10Hz within the MAOI, via the InterMAP Interface. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_07 4	The CGF tool must be able to model sub-surface platforms including the kinematics, sensors, weapons, behaviour and tactics		<p>Canada's Evaluation Team will cross reference this CGF_074 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool is able to model sub-surface platforms; or • 20 points if the User Manual or scenario states/demonstrates that the CGF tool is able to model sub-surface platforms. <p>Canada's Evaluation Team will deduct 4 points for each occurrence of inability to model the behaviours and subsystems listed in CGF_074.</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_07 5	The CGF tool must model sub-surface entities with 6-DOF.		<p>Canada's Evaluation Team will cross reference this CGF_075 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario identifies/demonstrates that the CGF tool is only able to represent sub-surface entities with 3-DOF; or • 10 points if the User Manual or scenario identifies/demonstrates that the CGF tool is only able to represent sub-surface entities with 5-DOF; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool is able to represent sub-surface entities with 6-DOF. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_07 6	The CGF tool must be able to report orientation of sub-surface entities as Euler Angles (Radians)		<p>Canada's Evaluation Team will cross reference this CGF_076 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool is able to report orientation of sub-surface entities as Euler Angles (Radians); or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool is able to report orientation of sub-surface entities as Euler Angles (Radians). 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_07 7	The CGF tool must be able to report orientation Rates of sub-surface entities as Euler Angle Rates (Radians/Second)		<p>Canada's Evaluation Team will cross reference this CGF_077 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool is able to report orientation rates of sub-surface entities as Euler Angle Rates (Radians/Second); or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool is able to report orientation rates of sub-surface entities as Euler Angle Rates (Radians/Second). 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_08 0	The CGF tool must be able to represent rules of engagement for individual and groups of entities, such as Self Defence, Respond to Hostile Intent, Respond to Hostile Act, Deter, Disable, Destroy, Avoid and Withdraw.		<p>Canada's Evaluation Team will cross reference this CGF_080 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool must be able to represent rules of engagement; or • 10 points if the User Manual or scenario identifies/demonstrates that the CGF tool is able to represent rules of engagement for individual entities; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool is able to represent rules of engagement for both individual and groups of entities. <p>Canada's Evaluation Team will deduct 1 point for each rule of engagement that <u>cannot</u> be represented.</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_08 2	The CGF tool must be capable of representing behaviours (based on the scenario), such as aggressive, defensive, passive and benign.		<p>Canada's Evaluation Team will cross reference this CGF_082 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify that the CGF tool is capable of representing behaviours; or • 20 points if the User Manual or scenario shows that the CGF tool is capable of representing behaviours. <p>Canada's Evaluation Team will deduct 5 points for each behaviour that <u>cannot</u> be represented.</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_08 3	The CGF tool must support the simulation of voice communications between simulated and live entities.		<p>Canada's Evaluation Team will cross reference this CGF_083 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool supports the simulation of voice communications between simulated and live entities; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool supports the simulation of voice communications between simulated and live entities. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_08 4	The CGF tool must allow entities to be slaved to a master entity, to enable easy definition of formations.		<p>Canada's Evaluation Team will cross reference this CGF_084 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool allows entities to be slaved to a master entity; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool allows entities to be slaved to a master entity. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_08 5	The CGF tool must allow weapons utilisation to be restricted to specific target types.		<p>Canada's Evaluation Team will cross reference this CGF_085 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool allows weapons utilisation to be restricted to specific target types; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool allows weapons utilisation to be restricted to specific target types. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_08 6	The CGF tool must allow sensor detections to be restricted to specific contact types and operating environments. e.g. a radar cannot detect a submerged submarine, and a sonar cannot detect airborne entities.		<p>Canada's Evaluation Team will cross reference this CGF_086 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool allows sensor detections to be restricted to specific contact types and operating environments; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool allows sensor detections to be restricted to specific contact types and operating environments. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_08 7	When connected via the InterMAP interface, the CGF tool must receive entity interactions, such as sensor detections, weapon releases, and kill assessments.		<p>Canada's Evaluation Team will cross reference this CGF_087 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool can receive entity interactions; or • 4 points if the User Manual or scenario identifies/demonstrates that the CGF tool can receive entity interactions; or • 8 points if the User Manual or scenario identifies/demonstrates that the CGF tool can receive entity interactions and respond accordingly; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool can receive entity interactions and respond accordingly, via the InterMAP interface. <p>Canada's Evaluation Team will deduct 4 points for each interaction type (sensor detections, weapon release, and kill assessment), which <u>cannot</u> be received by the CGF tool.</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_08 8	When connected via the InterMAP Interface, the CGF tool must transmit entity interactions, such as platform creation, movements and deletion.		<p>Canada's Evaluation Team will cross reference this CGF_088 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool can transmit entity interactions; or • 4 points if the User Manual or scenario identifies/demonstrates that the CGF tool can transmit entity interactions; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool can transmit entity interactions, via the InterMAP interface. <p>Canada's Evaluation Team will deduct 4 points for each interaction type (platform creation, movements and deletion), which <u>cannot</u> be transmitted by the CGF tool.</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_09 2	The CGF tool must facilitate modelling of the ocean environment including depth/bathymetry, acoustic modelling and sound propagation.		<p>Canada's Evaluation Team will cross reference this CGF_092 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool facilitates modelling of the ocean environment; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool facilitates modelling of the ocean environment. • <p>Canada's Evaluation Team will deduct 5 points for each environment modelling type (depth/bathymetry, acoustic modelling and sound propagation), which <u>cannot</u> be facilitated by the CGF tool.</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_09 3	The CGF tool must allow the representation of maritime domains, such as deep water, shallow water and the littoral.		<p>Canada's Evaluation Team will cross reference this CGF_093 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool allows the representation of maritime domains; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool allows the representation of maritime domains. • <p>Canada's Evaluation Team will deduct 5 points for each maritime domain type (deep water, shallow water and the littoral), which <u>cannot</u> be represented by the CGF tool.</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_094	The CGF tool must allow the representation of the various terrain types for the land domain, such as grasslands, tundra, desert, rocky, forest, brush, marsh, lakes, rivers and man-made.		<p>Canada's Evaluation Team will cross reference this CGF_094 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool allows the representation of land domain; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool allows the representation of land domain. • <p>Canada's Evaluation Team will deduct 2 points for each land domain type listed in CGF_094 that <u>cannot</u> be represented by the CGF tool.</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_09 5	The CGF tool must be capable of representing the effects of weather, such as rain, fog, snow, wind and sun, on entities, sensor detection ranges and weapon effectiveness.		<p>Canada's Evaluation Team will cross reference this CGF_095 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool is capable of representing the effects of weather; or • 10 points if the User Manual or scenario identifies/demonstrates that the CGF tool is capable of representing the effects of weather on entities; or • 15 points if the User Manual or scenario identifies/demonstrates that the CGF tool is capable of representing the effects of weather on entities <u>and</u> sensor detection ranges; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool is capable of representing the effects of weather on entities, sensor detection ranges, <u>and</u> weapon effectiveness. <p>Canada's Evaluation Team will deduct 4 points for each weather type listed in CGF_095 that <u>cannot</u> be represented by the CGF tool.</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_100	The CGF tool must facilitate After Action Reporting (AAR) via an integrated data logger with exposed and accessible logging formats, and the ability to record and replay scenarios		<p>Canada's Evaluation Team will cross reference this CGF_100 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool facilitates After Action Reporting (AAR) as described in CGF_100; or • 5 points if the User Manual or scenario identifies/demonstrates that the CGF tool facilitates After Action Reporting (AAR) with an <u>internal</u>, integrated data logger <u>without</u> the ability to record and replay scenarios; or • 10 points if the User Manual or scenario identifies/demonstrates that the CGF tool facilitates After Action Reporting (AAR) with an <u>internal</u>, integrated data logger <u>with</u> the ability to record and replay scenarios; or • 15 points if the User Manual or scenario identifies/demonstrates that the CGF tool facilitates After Action Reporting (AAR) with an <u>exposed</u>, integrated data logger <u>without</u> the ability to record and replay scenarios; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool facilitates After Action Reporting (AAR) with an <u>exposed</u>, integrated data logger <u>with</u> the ability to record and replay scenarios. 		

Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_10 2	The CGF tool must be capable of supporting multiple, asynchronous batch runs in a parallel processing fashion and then pooling the results – hence requires an architecture and control processes to facilitate this		<p>Canada's Evaluation Team will cross reference this CGF_102 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool is capable of supporting multiple, asynchronous batch runs in a parallel processing fashion, pooling the results; or • 10 points if the User Manual or scenario identifies/demonstrates that the CGF tool is capable of supporting multiple batch runs, pooling the results; or • 15 points if the User Manual or scenario identifies/demonstrates that the CGF tool is capable of supporting multiple, asynchronous batch runs in a parallel processing fashion, pooling the results; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool is capable of supporting multiple, asynchronous batch runs in a parallel processing fashion, pooling the results <u>in an inherent and automated fashion.</u> 		

CGF_10
3

The CGF tool must be capable of supporting exploratory data analysis via "hands-off" faster-than-real-time execution in a batch mode of operation (INSERT LARGER VALUE OF 400 RUNS OR CLAIM FROM WINNING BIDDERS PROPOSAL) to facilitate Monte Carlo approaches to experimentation.

Canada's Evaluation Team will cross reference this CGF_103 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.

Canada's Evaluation Team will award:

- 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool is capable of supporting exploratory data analysis via "hands-off" faster-than-real-time execution in a batch mode of operation; or
- 5 points if the User Manual or scenario identifies /demonstrates that the CGF tool is capable of supporting exploratory data analysis via faster-than-real-time execution in a batch mode of operation of less than 200 simultaneous runs; or
- 10 points if the User Manual or scenario identifies /demonstrates that the CGF tool is capable of supporting exploratory data analysis via faster-than-real-time execution in a batch mode of operation of between 200 and 399 simultaneous runs; or
- 15 points if the User Manual or scenario identifies /demonstrates that the CGF tool is capable of supporting exploratory data analysis via faster-than-real-time execution in a batch mode of operation of between 400 and 599 simultaneous runs; or
- 20 points if the User Manual or scenario identifies /demonstrates that the CGF tool is capable of supporting exploratory data analysis via faster-than-real-time execution in a batch mode of operation of greater than 600 simultaneous runs.

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_105	The CGF tool must allow creation of save-and-restore points during runs to facilitate rewind and restart of scenarios		<p>Canada's Evaluation Team will cross reference this CGF_105 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool allows creation of save-and-restore points during runs; • 10 points if the scenario demonstrates that the CGF tool allows creation of save-and-restore points during runs, but <u>cannot</u> run to completion after rewinding or restarting the scenario; or • 20 points if the scenario demonstrates that the CGF tool allows creation of save-and-restore points during runs, and will run to completion after rewinding and restarting the scenario. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_10 6	The CGF tool must permit full interactive control of individual entities at run time for real-time and Monte Carlo applications		<p>Canada's Evaluation Team will cross reference this CGF_106 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool permits full interactive control of individual entities at run time; • 10 points if the User Manual or scenario identifies/demonstrates that the CGF tool permits full interactive control of individual entities at run time for <u>either</u> real-time <u>or</u> Monte Carlo applications; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool permits full interactive control of individual entities at run time for <u>both</u> real-time <u>and</u> Monte Carlo applications. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_10 7	The CGF tool must be capable of representing and instantiating (INSERT LARGER VALUE OF 500 OR CLAIM FROM WINNING BIDDERS PROPOSAL) dynamic entities in a single scenario		<p>Canada's Evaluation Team will cross reference this CGF_107 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool is capable of representing and instantiating at least 250 instances; or • 5 points if the User Manual or scenario identifies /demonstrates that the CGF tool is capable of representing and instantiating between 250 and 499 instances; or • 10 points if the User Manual or scenario identifies /demonstrates that the CGF tool is capable of representing and instantiating between 500 and 749 instances; or • 15 points if the User Manual or scenario identifies /demonstrates that the CGF tool is capable of representing and instantiating between 750 and 999 instances; or • 20 points if the User Manual or scenario identifies /demonstrates that the CGF tool is capable of representing and instantiating 1000 or more instances. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_108	The CGF tool must facilitate human-in-the-loop operation/control to permit non-constrained, real-time execution of scenarios		<p>Canada's Evaluation Team will cross reference this CGF_108 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool facilitates human-in-the-loop operation/control, permitting non-constrained, real-time execution of scenarios; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool facilitates human-in-the-loop operation/control, permitting non-constrained, real-time execution of scenarios. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_109	The CGF tool must allow for execution faster-than, slower-than and real time, as well as pause, stop, save-and-restore, check-points		<p>Canada's Evaluation Team will cross reference this CGF_109 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool allows for the execution timing items listed in CGF_109; or • 20 points if the User Manual or scenario states/demonstrates that the CGF tool allows for the execution timing items listed in CGF_109. <p>Canada's Evaluation Team will deduct 2 points for each occurrence of inability to model the execution timing items listed in CGF_074.</p>		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_110	The CGF tool must permit control and modification of entity behaviours at run time for real-time and Monte Carlo Applications		<p>Canada's Evaluation Team will cross reference this CGF_110 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool permits control and modification of entity behaviours at run time; • 10 points if the User Manual or scenario identifies/demonstrates that the CGF tool permits control and modification of entity behaviours at run time for <u>either</u> real-time <u>or</u> Monte Carlo applications; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool permits control and modification of entity behaviours at run time for <u>both</u> real-time <u>and</u> Monte Carlo applications. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_111	The CGF tool must facilitate control of the scenario via both the User Interface and via scripts		<p>Canada's Evaluation Team will cross reference this CGF_111 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool facilitates control of the scenario; • 10 points if the User Manual or scenario identifies/demonstrates that the CGF tool facilitates control of the scenario via <u>either</u> the User Interface <u>or</u> scripts; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool facilitates control of the scenario via <u>both</u> the User Interface <u>and</u> scripts. 		

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Req. Id	TECHNICAL REQUIREMENT	RATED	EVALUATION CRITERIA	POINTS AWARDED	REFERENCE / JUSTIFICATION
CGF_11 2	The CGF tool must have a mechanism whereby any unexpected or unresolvable results can be assessed in detail. This can be facilitated through access to source code or a robust, responsive technical support capability from the vendor in conjunction with access to and assessment of system state variables		<p>Canada's Evaluation Team will cross reference this CGF_112 requirement to either the User Manual reference or scenario to be run on the 60-day trial version provided in requirement RFP_004.</p> <p>Canada's Evaluation Team will award:</p> <ul style="list-style-type: none"> • 0 points if the User Manual or scenario does not identify/demonstrate that the CGF tool has any mechanism whereby any unexpected or unresolvable results can be assessed in detail; • 15 points if the User Manual or scenario identifies/demonstrates that the CGF tool has at least one mechanism whereby any unexpected or unresolvable results can be assessed in detail; or • 20 points if the User Manual or scenario identifies/demonstrates that the CGF tool has more than one mechanism whereby any unexpected or unresolvable results can be assessed in detail. 		

Table A 2 - Rated Requirements

TOTAL POINTS AWARDED: _____

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ANNEX C

BASIS OF PAYMENT

Table 1

Item	Cost (a)	# (b)	Total Cost =(a) x (b)
20 Licenses of off-the-shelf CGF software, including one year of off-site software and integration support with the provision of three (3) on-site support visits, each of one (1) week duration, for the first year.		20	
Cost of additional licenses (This cost will not be part of the bid evaluation)		1	

Total \$ _____

Table 2

Item	Yearly Cost (a)	Years (b)	Total Cost =(a) x (b)
Three (3) years follow-on annual technical support (after year one) for the twenty (20) Licenses of the CGF software		3	
Three (3) years of software development and test support (after year one), including the provision for an on-site support team three (3) times, within the three (3) year period, for one (1) week duration per visit.		3	

Total \$ _____

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The bidder must provide a breakdown/plan to integrate the software elements that are not included in the initial off-the-shelf software release. Items that are included in the off-the-shelf release should have a cost of \$0.00

Table 3

Requirement	Description or "Deliverable"	Included in Off-The-Shelf Release (YES/NO)	Firm Amount	Due Date or "Delivery Date"
CGF_001	The CGF tool must provide a graphical interface, which does not require software coding, to create, modify or run scenarios.		\$ _____	
CGF_002	The user interface must be logical, well organized and allow access to all model parameters.		\$ _____	
CGF_003	The CGF tool must provide a map-based user interface for scenario development by a non-specialist.		\$ _____	
CGF_004	The CGF tool must provide a user interface for the editing of entities, weapons and sensors by a non-specialist.		\$ _____	
CGF_005	The CGF tool must provide a user interface for the editing of the terrain environment by a non-specialist.		\$ _____	
CGF_006	The CGF tool's user interface must provide access to input and modify model parameters.		\$ _____	
CGF_007	The User must be able to view individual entity states through the user interface.		\$ _____	
CGF_008	The User, when developing scenarios, must not require any software coding knowledge to use the CGF tool.		\$ _____	
CGF_009	The User, when developing entities, must not require any software coding knowledge to use the CGF tool.		\$ _____	
CGF_010	The CGF tool must only require a standard keyboard and mouse user interface.		\$ _____	
CGF_011	The CGF tool must be able to run on a standard laptop or desktop PC.		\$ _____	

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CGF_012	The CGF tool must be compatible with single screen operation, as in the case of a standalone laptop.		\$ _____	
CGF_013	The CGF tool must operate in a Microsoft Windows environment.		\$ _____	
CGF_014	The CGF tool must be portable to a Linux environment.		\$ _____	
CGF_015	The CGF tool must be able to run on virtual machines within a compute cluster environment.		\$ _____	
CGF_016	The CGF tool must be able to operate in a standalone environment, without the need for a network connection.		\$ _____	
CGF_017	The CGF tool must be able to operate in a distributed environment, where multiple machines running the CGF tool are networked together.		\$ _____	
CGF_018	The CGF tool must be able to run in a Monte Carlo mode		\$ _____	
CGF_019	A single CGF tool license must be able to spawn multiple instances (INSERT LARGER VALUE OF 500 OR CLAIM FROM WINNING BIDDERS PROPOSAL) of CGF runtimes, for Monte Carlo operation.		\$ _____	
CGF_020	The CGF tool must be able to operate with other software, such as SADM, ODIN, MATLAB, SIMDIS™, and Office tools, on the Host machine.		\$ _____	
CGF_021	The CGF tool must provide a bidirectional interface to InterMAP.		\$ _____	
CGF_022	The CGF tool must provide an IEEE 1278 DIS compatible interface.		\$ _____	

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CGF_023	The CGF tool must be able to support at least three (3) simultaneous network interfaces, such as an IEEE 1278 DIS output, other CGF and InterMAP.		\$ _____	
CGF_024	When run in a distributed environment, each instance of the CGF tool must be able to support at least 2 (two) simultaneous network interfaces.		\$ _____	
CGF_025	The CGF tool must be able support multiple simultaneous network interfaces.		\$ _____	
CGF_026	The CGF tool must be able to interoperate with other CGF, Exercise Simulation & Wargaming and visualisation tools, via IEEE 1278 DIS or IEEE 1516 HLA (with RPR FOM v2 D17) protocols.		\$ _____	
CGF_027	The CGF tool must provide an Application Programming Interface (API), which provides features, such as:		\$ _____	
	Simulation modification & control;			
	Entity modification & control;			
	Weather modification & control;			
	Interface modification & control; and			
	Display modification & control.			
CGF_028	The CGF tool must be able to interoperate with SADM, via the InterMAP interface.		\$ _____	
CGF_029	The CGF tool must be able to interoperate with ODIN, via the InterMAP interface.		\$ _____	
CGF_030	The CGF tool must be able to interface with NRL SIMDIS™, using an IEEE 1278 DIS interface.		\$ _____	
CGF_031	The CGF tool must be capable of running and participating in time-managed simulations to facilitate accurate synchronization with external applications.		\$ _____	

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CGF_032	The CGF tool must be capable of interoperating with OTH_Gold.		\$ _____	
CGF_033	The CGF tool must be capable of representing personnel, platforms, communications, weapons, sensors and threats.		\$ _____	
CGF_034	The CGF tool must come with representative (default) entities, weapons, sensors and systems for friendly, enemy and neutral forces, including damage, movement, tactical models and behavior, both individual and group (for example, a convoy).		\$ _____	
CGF_035	The User must be able to create new platforms, weapons, threats and sensors beyond those that come with the original acquisition without the tool Bidder support.		\$ _____	
CGF_036	The CGF tool must allow sensor performance to be simulated using probability of detection (Pd) curves.		\$ _____	
CGF_037	The CGF tool must allow effector performance to be simulated using probability of kill (Pk) curves.		\$ _____	
CGF_038	The CGF tool must allow simulated operator command and control (C2) decision and interaction delays to be modelled.		\$ _____	
CGF_039	The CGF tool must have an integral, method (such as plug-in mechanism or GUI) to allow extension to, modification of and/or replacement of models within the CGF, including changes to entity:			
	• type;			
	• kinematic performance;			
	• manning levels;			
	• reliability & maintainability;		\$ _____	

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	<ul style="list-style-type: none"> • domain (air, land, sea surface, sea sub-surface, or space); • vulnerability; • lethality; • detectability aka signature; • sensor & weapon performance; and • fuel efficiency. 			
CGF_040	The User must have ability to create and assign logical sets of behaviours, such as a surface ship Torpedo Counter Measures (TCM), to specific entity types and operating environments so that context-sensitive behaviours are presented for a specific entity type via the user interface.		\$ _____	
CGF_041	The CGF tool must allow users to determine speed and direction of entities, detection of other entities, and fire effectors as necessary		\$ _____	
CGF_042	The CGF tool must be capable of representing entities, behaviours and effects, as well as objects including navigational hazards and markers such as roads, bridges, buoys, reefs and swamps		\$ _____	
CGF_043	The CGF tool must allow for interfacing with C2 systems, such that the C2 system can initialize, configure and control the CGF system through a standard BML interface (at least one of C-BML, GCCS or JC3IEDM/MIP)		\$ _____	
CGF_044	The CGF tool must be capable of representing damage modelling for friendly, opposing and neutral forces		\$ _____	
CGF_045	The CGF tool must be able to model the effects of personnel morale and training effectiveness, at a platform level.		\$ _____	

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CGF_046	The CGF tool must be able to model the effects of logistics, such as:			
	• Operational Availability (Ao);			
	• Equipment Mean Time Between Failure (MTBF);			
	• Equipment Mean Time To Repair (MTTR);			
	• Equipment Logistics Delay Time (MLDT); and			
	• Equipment Level of Repair (1st Line, 2nd Line, Depot and Non Repairable).		\$ _____	
CGF_047	The User must be able to define a sub area of the CGF tool map as a Modelling Area Of Interest (MAOI) of at least 350NM ² , where data associated with (INSERT LARGER VALUE OF 500 OR CLAIM FROM WINNING BIDDERS PROPOSAL) entities within the region will be updated at minimum 10Hz.		\$ _____	
CGF_048	The CGF tool must allow at least 50 air entities to be defined as high data rate, which will enable updates at a minimum of 60Hz within the MAOI, via the InterMAP Interface.		\$ _____	
CGF_049	The CGF tool must be able to model aircraft, including the kinematics, sensors, weapons, behaviour and tactics		\$ _____	
CGF_050	The CGF tool must be able to represent air entities with 6-DOF.		\$ _____	
CGF_051	The CGF tool must be able to report orientation of air entities as Euler Angles (Radians).		\$ _____	
CGF_052	The CGF tool must be able to report orientation rates of air entities as Euler Angle Rates (Radians/Second).		\$ _____	
CGF_053	The CGF tool must be able to report velocities of air entities as X-Vel, Y-Vel and Z-Vel (Metres/Second).		\$ _____	

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CGF_054	The CGF tool must be able to report the position of air entities as X, Y, Z (Metres).		\$ _____	
CGF_055	The CGF tool must provide updates of at least 10 land entities defined as observers at a minimum of 5Hz within the MAOI, via the InterMAP interface.		\$ _____	
CGF_056	The CGF tool must provide updates of at least 20 land entities not defined as observers at a minimum of 1Hz within the MAOI, via the InterMAP interface.		\$ _____	
CGF_057	The CGF tool must be able to model land vehicles, including the kinematics, sensors, weapons, behaviour and tactics.		\$ _____	
CGF_058	The CGF tool must be able to model land installations, including the sensors, weapons, behaviour and tactics.		\$ _____	
CGF_059	The CGF tool must be able to represent land entities with 3-DOF.		\$ _____	
CGF_060	The CGF tool must be able to report orientation of land entities as Euler Angles (Radians)		\$ _____	
CGF_061	The CGF tool must be able to report orientation rates of land entities as Euler Angle Rates (Radians/Second)		\$ _____	
CGF_062	The CGF tool must be able to report velocities of land entities as X-Vel and Y-Vel (Metres/Second)		\$ _____	
CGF_063	The CGF tool must be able to report the position of land entities as X, Y (Metres).		\$ _____	
CGF_064	The CGF tool must allow at least 30 sea surface entities to be defined as high data rate, which will enable updates at a minimum of 60 Hz within the MAOI, via the InterMAP Interface.		\$ _____	

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CGF_065	The CGF tool must update at least 20 sea surface entities, not defined as high data rate, at a minimum of 10Hz within the MAOI, via the InterMAP Interface.		\$ _____	
CGF_066	The CGF tool must be able to model ships, including the kinematics, sensors, weapons, behaviour and tactics		\$ _____	
CGF_067	The CGF tool must be able to represent sea surface entities with 6-DOF.		\$ _____	
CGF_068	The CGF tool must be able to report orientation of sea surface entities as Euler Angles (Radians)		\$ _____	
CGF_069	The CGF tool must be able to report orientation rates of sea surface as Euler Angle Rates (Radians/Second)		\$ _____	
CGF_070	The CGF tool must be able to report velocities of sea surface entities as X-Vel, Y-Vel and Z-Vel (Metres/Second)		\$ _____	
CGF_071	The CGF tool must be able to report position of sea surface entities as X, Y, Z (Metres)		\$ _____	
CGF_072	The CGF tool must allow at least 5 sub-surface entities to be defined as high data rate, which will enable updates at a minimum of 60Hz within the MAOI, via the InterMAP Interface.		\$ _____	
CGF_073	The CGF tool must update at least 5 sub-surface entities, not defined as high data rate, at a minimum of 10Hz within the MAOI, via the InterMAP Interface.		\$ _____	
CGF_074	The CGF tool must be able to model sub-surface platforms including the kinematics, sensors, weapons, behaviour and tactics.		\$ _____	
CGF_075	The CGF tool must model sub-surface entities with 6-DOF.		\$ _____	

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CGF_076	The CGF tool must be able to report orientation of sub-surface entities as Euler Angles (Radians)		\$ _____	
CGF_077	The CGF tool must be able to report orientation Rates of sub-surface entities as Euler Angle Rates (Radians/Second)		\$ _____	
CGF_078	The CGF tool must be able to report velocities of sub-surface entities reported as X-Vel, Y-Vel and Z-Vel (Metres/Second)		\$ _____	
CGF_079	The CGF tool must be able to report position of sub-surface entities as X, Y, Z (Metres)		\$ _____	
CGF_080	The CGF tool must be able to represent rules of engagement for individual and groups of entities, such as Self Defence, Respond to Hostile Intent, Respond to Hostile Act, Deter, Disable, Destroy, Avoid and Withdraw.		\$ _____	
CGF_081	In a single scenario, the CGF tool must be capable of representing a geographic area of up to 8750NM ²		\$ _____	
CGF_082	The CGF tool must be capable of representing behaviours (based on the scenario), such as aggressive, defensive, passive and benign.		\$ _____	
CGF_083	The CGF tool must support the simulation of voice communications between simulated and live entities.		\$ _____	
CGF_084	The CGF tool must allow entities to be slaved to a master entity, to enable easy definition of formations.		\$ _____	
CGF_085	The CGF tool must allow weapons utilisation to be restricted to specific target types.		\$ _____	
CGF_086	The CGF tool must allow sensor detections to be restricted to specific contact types and operating environments. e.g. a radar cannot detect a submerged submarine, and a sonar cannot detect airborne entities.		\$ _____	

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CGF_087	When connected via the InterMAP interface, the CGF tool must receive entity interactions, such as sensor detections, weapon releases, and kill assessments.		\$ _____	
CGF_088	When connected via the InterMAP Interface, the CGF tool must transmit entity interactions, such as platform creation, movements and deletion.		\$ _____	
CGF_089	The CGF tool must allow scenarios and vignettes to be distributed across multiple CGF tool instances, allowing specific entities or entity groups to be distributed.		\$ _____	
CGF_090	The CGF tool must be configurable to coordinate multiple CGF tool instances from a single master CGF tool instance, to support a distributed scenario or vignette.		\$ _____	
CGF_091	The CGF tool must be able to facilitate terrain file generation without requiring any extra tools not included with the CGF tool, with the ability to edit terrain objects		\$ _____	
CGF_092	The CGF tool must facilitate modelling of the ocean environment including depth/bathymetry, acoustic modelling and sound propagation.		\$ _____	
CGF_093	The CGF tool must allow the representation of maritime domains, such as deep water, shallow water and the littoral.		\$ _____	
CGF_094	The CGF tool must allow the representation of the various terrain types for the land domain, such as grasslands, tundra, desert, rocky, forest, brush, marsh, lakes, rivers and man-made.		\$ _____	

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CGF_095	The CGF tool must be capable of representing the effects of weather, such as rain, fog, snow, wind and sun, on entities, sensor detection ranges and weapon effectiveness.		\$ _____	
CGF_096	The CGF tool must be capable of displaying map data from anywhere in the world preferably using the WGS-84 datum		\$ _____	
CGF_097	The CGF tool must be capable of incorporating data and information associated with industry standard GIS and mapping tools, such as Global Mapper and ESRI.		\$ _____	
CGF_098	The CGF tool must allow any given scenario or vignette to be 100% repeatable, ensuring results can be recreated.		\$ _____	
CGF_099	The CGF tool must be capable of producing and exporting data files in a format usable by Microsoft Office tools.		\$ _____	
CGF_100	The CGF tool must facilitate After Action Reporting (AAR) via an integrated data logger with exposed and accessible logging formats, and the ability to record and replay scenarios		\$ _____	
CGF_101	The CGF tool must allow for scenario modification, including entity behaviour, at run time		\$ _____	
CGF_102	The CGF tool must be capable of supporting multiple, asynchronous batch runs in a parallel processing fashion and then pooling the results – hence requires an architecture and control processes to facilitate this		\$ _____	

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CGF_103	The CGF tool must be capable of supporting exploratory data analysis via "hands-off" faster-than-real-time execution in a batch mode of operation (INSERT LARGER VALUE OF 400 RUNS OR CLAIM FROM WINNING BIDDERS PROPOSAL) to facilitate Monte Carlo approaches to experimentation.		\$ _____	
CGF_104	The CGF tool must be capable of supporting single run, repeatable experiments.		\$ _____	
CGF_105	The CGF tool must allow creation of save-and-restore points during runs to facilitate rewind and restart of scenarios		\$ _____	
CGF_106	The CGF tool must permit full interactive control of individual entities at run time for real-time and Monte Carlo applications		\$ _____	
CGF_107	The CGF tool must be capable of representing and instantiating (INSERT LARGER VALUE OF 500 OR CLAIM FROM WINNING BIDDERS PROPOSAL) dynamic entities in a single scenario		\$ _____	
CGF_108	The CGF tool must facilitate human-in-the-loop operation/control to permit non-constrained, real-time execution of scenarios		\$ _____	
CGF_109	The CGF tool must allow for execution faster-than, slower-than and real time, as well as pause, stop, save-and-restore, check-points		\$ _____	
CGF_110	The CGF tool must permit control and modification of entity behaviours at run time for real-time and Monte Carlo Applications		\$ _____	
CGF_111	The CGF tool must facilitate control of the scenario via both the User Interface and via scripts		\$ _____	

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CGF_112	The CGF tool must have a mechanism whereby any unexpected or unresolvable results can be assessed in detail. This can be facilitated through access to source code or a robust, responsive technical support capability from the vendor in conjunction with access to and assessment of system state variables		\$ _____	
CGF_113	The CGF tool (including all updated deliveries of the CGF tool) must be supplied with detailed documentation that describes operation of the User Interface (UI) and function of the underlying algorithms and models, as well as description of the installation and configuration of the system		\$ _____	
CGF_114	The CGF tool must include help features for the user interface and all functionality		\$ _____	
CGF_115	The CGF tool must be accompanied by documentation and training that includes basic level introduction, tutorials and specialized descriptions.		\$ _____	
CGF_116	The Contractor must provide CGF tool documentation that covers the following aspects: scenario development, administrator, basic user, importance of configuration parameters and associated interdependencies		\$ _____	

Total \$ _____

BID = Table 1 Total + Table 2 Total + Table 3 Total = \$ _____

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ANNEX D

FINANCIAL EVALUATION EXAMPLE

The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 60/40 ratio of technical merit and price, respectively. The total available points equals 135 and the lowest evaluated price is \$45,000 (45).

Basis of Selection - Highest Combined Rating Technical Merit (60%) and Price (40%)

	Bidder 1	Bidder 2	Bidder 3
Overall Technical Score	115/135	89/135	92/135
Bid Evaluated Price	\$55,000.00	\$50,000.00	\$45,000.00
Calculations			
Technical Merit Score	$115/135 \times 60 = 51.11$	$89/135 \times 60 = 39.56$	$92/135 \times 60 = 40.89$
Pricing Score	$45/55 \times 40 = 32.73$	$45/50 \times 40 = 36.00$	$45/45 \times 40 = 40.00$
Combined Rating	83.84	75.56	80.89
Overall Rating	1st	3rd	2nd

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BIDDER FORMS

FORM 1: BID SUBMISSION FORM													
<p>Bidder's full legal name</p> <p><i>[Note to Bidders: Bidders who are part of a corporate group should take care to identify the correct corporation as the Bidder.]</i></p>													
<p>Authorized Representative of Bidder for evaluation purposes (e.g., clarifications)</p>	<table border="1" style="width: 100%;"> <tr> <td style="width: 30%;">Name:</td> <td></td> </tr> <tr> <td>Title:</td> <td></td> </tr> <tr> <td>Address:</td> <td></td> </tr> <tr> <td>Telephone #:</td> <td></td> </tr> <tr> <td>Fax #:</td> <td></td> </tr> <tr> <td>Email:</td> <td></td> </tr> </table>	Name:		Title:		Address:		Telephone #:		Fax #:		Email:	
Name:													
Title:													
Address:													
Telephone #:													
Fax #:													
Email:													
<p>Bidder's Procurement Business Number (PBN)</p> <p><i>[see the Standard Instructions 2003]</i></p> <p><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></p>													
<p>Jurisdiction of Contract:</p> <p>Province or Territory in Canada the Bidder wishes to be the legal jurisdiction applicable to any resulting contract (if other than as specified in solicitation)</p>													
<p>Canadian Content Certification</p> <p>As described in the solicitation, bids with at least 80% Canadian content are being given a preference.</p> <p><i>[For the definition of Canadian goods and services, consult the PWGSC SACC clause A3050T]</i></p>	<p>On behalf of the Bidder, by signing below, I confirm that <i>[check the box that applies]:</i></p> <table border="1" style="width: 100%;"> <tr> <td style="width: 80%;">At least 80 percent of the bid price consists of Canadian goods and services (as defined in the solicitation)</td> <td style="width: 20%;"></td> </tr> <tr> <td>Less than 80 percent of the bid price consists of Canadian goods and services (as defined in the solicitation)</td> <td></td> </tr> </table>	At least 80 percent of the bid price consists of Canadian goods and services (as defined in the solicitation)		Less than 80 percent of the bid price consists of Canadian goods and services (as defined in the solicitation)									
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<p>Licensed Software Maintenance and Support:</p> <p><i>(Contracting Authority should only insert when supplemental General Conditions 4004 has been inserted in Part 7).</i></p>	<table border="1" style="width: 100%;"> <tr> <td style="width: 30%;">Toll-free Telephone Access:</td> <td></td> </tr> <tr> <td>Toll-Free Fax Access:</td> <td></td> </tr> <tr> <td>E-Mail Access:</td> <td></td> </tr> <tr> <td>Website address for web support:</td> <td></td> </tr> </table>	Toll-free Telephone Access:		Toll-Free Fax Access:		E-Mail Access:		Website address for web support:					
Toll-free Telephone Access:													
Toll-Free Fax Access:													
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FORM 1: BID SUBMISSION FORM

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:

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; and
4. 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

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**Form 2
OEM Certification Form**

This confirms that the original equipment manufacturer (OEM) identified below has authorized the Bidder named below to provide and maintain its products under any contract resulting from the bid solicitation identified below.

Name of OEM _____

Signature of authorized signatory of OEM _____

Print Name of authorized signatory of OEM _____

Print Title of authorized signatory of OEM _____

Address for authorized signatory of OEM _____

Telephone no. for authorized signatory of OEM _____

Fax no. for authorized signatory of OEM _____

Date signed _____

Solicitation Number _____

Name of Bidder _____

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<p>Form 3 Software Publisher Certification Form (to be used where the Bidder itself is the Software Publisher)</p>
<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>
<hr/>
<hr/>
<hr/>
<hr/>
<p><i>[Bidders should add or remove lines as needed]</i></p>

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W010V-17A024/A

Amd. No – N° de la modif.

Buyer ID – Id de l'acheteur
HAL218

Client Ref. No. – N° de réf. De client
W010V-17-A024

File No. – N° du dossier
HAL-6-77164

CCC No./ N° CCC – FMS No/ N° VME

Form 4
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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52: False or misleading representation 53: deceptive notice of winning a prize			
Corruption of Foreign Public Officials Act 3: Bribing a foreign public official 4: Accounting 5: Offence committed outside Canada	<input type="checkbox"/>	<input type="checkbox"/>	
Controlled Drugs and Substance Act 5: Trafficking in substance 6: Importing and exporting 7: Production of substance	<input type="checkbox"/>	<input type="checkbox"/>	
Other Acts 239: False or deceptive statements of the Income Tax Act 327: False or deceptive statements of the Excise Tax Act	<input type="checkbox"/>	<input type="checkbox"/>	

Additional Comment

I, (name) _____, (position) _____, of (company name bidder) _____ authorise PWGSC to collect and use the information provided, in addition to any other information that may be required to make a determination of ineligibility and to publicly disseminate the results.

I, (name) _____, (position) _____, of (company name bidder) _____ certify that the information provided in this form is, to the best of my knowledge, true and complete. Moreover, I am aware that any erroneous or missing information could result in the cancellation of my bid as well as a determination of ineligibility/suspension.

We appreciate your interest in doing business with The Government of Canada and your understanding on the additional steps that we need to take to protect the integrity of PWGSC's procurement process.

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**Form 6
List of Names Form**

In accordance with Part 5, Article (*insert the appropriate Article number*) – Integrity Provision – List of Names, please complete the Form below.

Complete Legal Name of Company	
Company's address	
Company's Procurement Business Number (PBN)	
Solicitation number	
Board of Directors (Use Format – first name last name) Or put the list as an attachment	
1. Director	
2. Director	
3. Director	
4. Director	
5. Director	
6. Director	
7. Director	
8. Director	
9. Director	
10. Director	
Other members	
Comments	