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11 Laurier St. / 11, rue Laurier

Place du Portage, Phase III

Core 0B2 / Noyau 0B2

Gatineau, Québec K1A 0S5

Bid Fax: (819) 997-9776

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

Defence Communications Division. (QD)

11 Laurier St./11, rue Laurier

Place du Portage, Phase III, 8C2

Gatineau, Québec K1A 0S5

Title - Sujet Tactical Air Coordination Suite	
Solicitation No. - N° de l'invitation W8476-185751/C	Amendment No. - N° modif. 009
Client Reference No. - N° de référence du client 6000412936	Date 2020-12-18
GETS Reference No. - N° de référence de SEAG PW-\$\$QD-036-27880	
File No. - N° de dossier 036qd.W8476-185751	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Standard Time EST on - le 2021-01-15 Heure Normale de l'Est HNE	
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Briere-Provost, Mathieu	Buyer Id - Id de l'acheteur 036qd
Telephone No. - N° de téléphone (891) 790-1635 ()	FAX No. - N° de FAX () -
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

This RFP Amendment 009 is raised to:

1. Update Annex F0 – Compliance Evaluation Matrix;
2. Update the RFP; and
3. Provide answers to Industry's questions.

2.1 At Part 3, p.6, remove 3.1 in its entirety and replace with:

Canada requests that the Bidder submits its Epost bid in accordance with section 08 of the 2003 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation. Bids cannot be submitted by facsimile.

2.2 At Part 3, Section 1: Technical bid on p.7, add:

Note that the bid evaluation shall be conducted in various phases as described in Part 4 of this bid solicitation. In addition to the submission of the bid via epost, the Bidder may be notified to perform an in-person demonstration as part of the bid evaluation process described in Part 4.

2.3 At Part 4.1.4 on p.12, delete in its entirety and replace with:

4.1.1.4 (2018-03-13) Phase III: Final Evaluation of the Bid

In Phase III, Canada will complete the evaluation of all bids found responsive to the mandatory requirements reviewed at Phase II. Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.

In Phase III, Canada will perform the following evaluation tasks, in sequence;

1. Evaluate each bidder's response to the technical rated criteria, as populated in Annex F0 – Compliance and Evaluation Matrix, Scoring Matrix.
2. Evaluate each bidder's response to technical rated criteria, as populated in Annex F0 – Compliance and Evaluation Matrix, Demonstration-Scoring Matrix.
3. Calculate a preliminary Combined Rating for each bidder, as defined in Section 4.3 Basis of Selection.
4. Observe an in-person demonstration from the bidder with the highest preliminary Combined Rating. The in-person demonstration must be performed in accordance with Annex F1 – Demonstration Plan at a mutually-agreed location, expected but not required to be the bidder's facility. The purpose of the in-person demonstration is to provide comprehensive validation of a bidder's claim to the level of readiness of their proposed solution, as populated in Annex F0 – Compliance and Evaluation Matrix, Demonstration-Scoring Matrix.
 - a. In the event of a discrepancy between what a bidder has claimed in Annex F0- Compliance and Evaluation Matrix, Demonstration-Scoring Matrix and what has been shown at the in-person demonstration, the bidder will be rescored in accordance with what has been shown at the in-person demonstration.

- b. The in-person demonstration cannot result in an increase in technical score awarded for any individual requirement.
 - c. Communication between the DND evaluation team and the bidder during the in-person demonstration will be limited to questions related to Annex F1 – Demonstration Plan and the evaluation of the requirements outlined in Annex F0 – Compliance and Evaluation Matrix, Demonstration-Scoring Matrix.
5. Finalize the Combined Rating for the bidder that performed the in-person demonstration at Paragraph 4.
 - a. In the event that following the in-person demonstration, the bidder's Combined Rating drops below that of the bidder with the second highest preliminary Combined Rating, the latter bidder will be required to perform an in-person demonstration in accordance with Paragraph 4.
 - b. In the event that following the in-person demonstration, the bidder still holds the highest Combined Rating, the bidder will be recommended for contract award.

2.4 At Part 4.3 on p.13, delete in its entirety and replace with:

SECTION 4.3 BASIS OF SELECTION

1. To be declared responsive, a proposal must:
 - a. Comply with all the requirements of the bid solicitation; and
 - b. Meet all mandatory criteria.
2. Bids not meeting (1a) and/or (1b) will be declared non-responsive and will not be given further consideration.
3. The selection will be based on the highest responsive Combined Rating of Technical Merit Score and Pricing Score. The ratio will be 75% for technical merit and 25% for price.
4. To establish the Technical Merit Score, the overall technical score for each responsive bid will be determined as follows: total number of technical points obtained, as outlined in Section 4.1.1.4, divided by 10000 (maximum number of Technical Points) and then multiplied by 75.
5. To establish the Pricing Score, each responsive bid will be prorated against the lowest evaluated Final Weighted Financial Bid and the ratio of 25%.
6. For each responsive bid, the Technical Merit Score and the Pricing Score will be added to determine its Combined Rating.
7. Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated Final Weighted Financial Bid will necessarily be accepted.

The table below illustrates an example where all three bids are responsive and the selection of the Contractor is determined by a 75/25 ratio of technical merit and price, respectively. The total available points equals 10000 and the lowest evaluated Final Weighted Financial Bid is \$5,250,000.

Basis of Selection - Highest Combined Rating Technical Merit (75%) and Price (25%)

		Bidder 1	Bidder 2	Bidder 3
	Overall Technical Score	6500	9500	3250
	Final Weighted Financial Bid	7,850,000	9,500,000	5,250,000
Calculations	Technical Merit Score	$6500 * 75/10000 = 48.75$	$9500 * 75/10000 = 71.25$	$3250 * 75/10000 = 24.38$
	Pricing Score	$5250000/7850000 * 25 = 16.72$	$5250000/9500000 * 25 = 13.82$	$5250000/5250000 * 25 = 25.00$
	Combined Rating	65.47	85.07	49.38
	Ranking	2	1	3

8. The responsive bid with the highest combined rating of Technical Merit Score and Pricing Score will be recommended for contract award.

2.5: At Annex A1, p.77, remove 6.7.2.87.3 and 6.7.2.87.5

2.6 At Annex F1 – Demonstration plan on p.143, delete in its entirety and replace with:

TACTICAL AIR COORDINATION SUITE (TACS) – AIRSPACE COORDINATION CENTRE MODERNIZATION (ASCCM)

1. Demonstration of TACS Requirements.

- 1.1. The primary purpose of the demonstration is to validate, in person, the Bidder's proposed solution's Readiness as outlined in para 7 of the Appendix A1, System Performance Specification.
- 1.2. In accordance with RFP's para 4.1.1.4. *Phase III: Final Evaluation of the Bid* the Bidder must be ready to demonstrate, within ten (10) business days of notification of an invitation for demonstration, and at a mutually agreed location, the TACS requirements mentioned in the Demonstration Scoring Matrix of the Annex F0 – Compliance and Evaluation Matrix.
- 1.3. The Bidders, as part of their bid submission, must provide a demonstration plan that as a minimum must outline the preferred location, setup, methods, scenarios, equipment and software that will be utilized.
- 1.4. The Bidders must complete their demonstration in no more than 4 days.
- 1.5. The Bidders must perform their demonstration using physical systems onsite. Any form of virtual demonstration (video conference, online meeting, video clips, etc.) from a remote site and/or location will not be accepted, even for a subset of the demonstrating capability or functionality.
- 1.6. Demonstration of the selected requirements is considered to be successful, in this context, when for each of the requirements it is shown one of the following states:

- 1.6.1. 'Under Development'. A demonstrable requirement is declared in the 'Under Development' state when it's not fully-developed and/or integrated in an existing application or software component, and requires some development and integration to bring it to an operational state.
- 1.6.2. 'Implemented'. A demonstrable requirement is declared in the 'Implemented' state when it's fully-developed and integrated in an existing and functional application or software component that has not been integrated into the final proposed TACS software solution. This can be either third-party software, or the bidder's own software, that is not currently integrated into a single, cohesive, fully-developed solution, but it must be software that currently exists, and will be integrated as part of the final delivered TACS software solution.
- 1.6.3. 'Operational'. A demonstrable requirement is declared in the 'Operational' state when it's fully-developed and integrated into the final proposed TACS software solution.
- 1.6.4. 'Desirable Requirement Not Bid'. A demonstrable requirement is declared in the 'Desirable Requirement Not Bid' state when it's referencing to a non-committed desirable requirement of the Appendix A1, System Performance Specification
2. Demonstration structure. The demonstration must be organized per series to clearly present the main capabilities and functionalities which are covering the requirements that are subject to the demonstration. As a proposition, the following demonstration series should be executed:
- 2.1. The Solution Overall. All selected requirements regarding the software architect, availability, security, operational environment and configuration that fit in this context should be demonstrated.
- 2.2. The Local Air Picture (LAP) Compilation and Airspace Coordination. The selected LAP Management (LAPM) and, applicable Air Space Coordination Management (ASCM) requirements that fit in the context must be demonstrated. The selected Tactical Display Command Control Interface (TDC2I) requirements that support the LAPM and ASCM capabilities must also demonstrated.

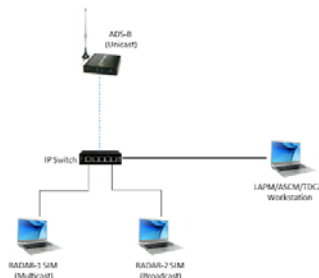


Figure 1 - LAPM Capability Demonstration

The systems configuration presented in the Figure 1 - LAPM Capability Demonstration is served as a reference only and should not be considered as the demonstration requirement.

- 2.3. The Recognized Air Picture (RAP) Compilation and Airspace Coordination. The selected RAP Management (RAPM) and ASCM requirements that fit in the context must be

demonstrated. The selected TDC2I requirements that support the RAPM and ASCM capabilities must also demonstrated.

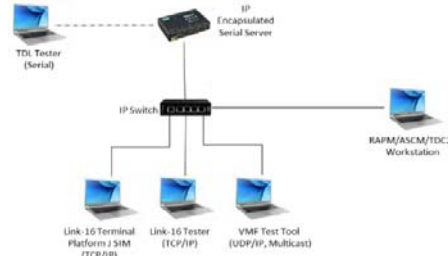


Figure 2 - RAPM Capability Demonstration

The systems configuration presented in the Figure 2 - RAPM Capability Demonstration is served as a reference only and should not be considered as the demonstration requirement.

- 2.4. The Full Capability. All selected requirements that fit in the context must be demonstrated in an interactive fashion.

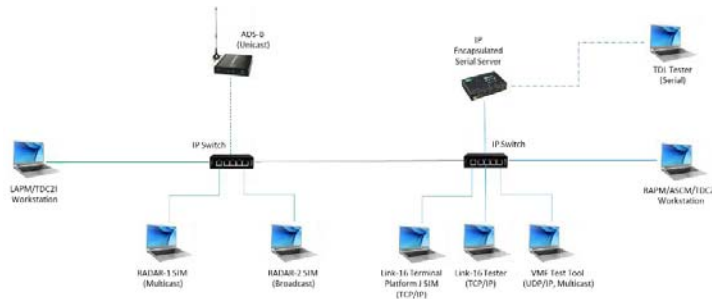


Figure 3 - Full Capability Demonstration

The systems configuration presented in the Figure 3 - Full Capability Demonstration is served as a reference only and should not be considered as the demonstration requirement.

3. Demonstration's systems specifications. Considering the demonstration of the TACS's selected requirements implies controlled and restricted systems that won't be likely available and/or accessible at certain location, the accredited simulator, emulator and test tools for such systems can be used during this demo. As a suggestion, the following test tools can be used with the proposed solution to demonstrate its capabilities and functionalities:

- 3.1. Radar Simulator or Emulator can be used as the plots and/or track producer in the demonstration of LAPM capability.
- 3.2. A well-known Tactical Data Link (TDL) processor can be used as peer TDL system/processor in the demonstration of RAPM capability.
- 3.3. A well-known Link-16 Terminal Emulator can be used in the demonstration of Link-16 messages exchange.

3.4. A commercial IP Serial Device Server (SDS) can be used in the demonstration of data exchange on serial interface.

3.5. The NMEA 0183 compliant Global Positioning System (GPS), commercial or military, can be used with the proposed solution to demonstrate the time synchronization and own position report functionalities.

Answers to Industry's questions :

1	Requirements, 6.7.2.88.1 and 6.7.2.88.2 appear to be duplicates of 6.7.2.87.3 and 6.7.2.87.5, respectively. Could CANADA confirm that this is indeed the case, and if so, the surviving requirements be treated as Rated?	Correct. Following an re-assessment requirements 6.7.2.87.3 and 6.7.2.87.5 had become 6.7.2.88.1 and 6.7.2.88.2. which are rated requirements. Requirements 6.7.2.87.3. and 6.7.3.87.5. are to be removed.
2	While requirements 6.7.2.37.1 and 6.7.2.37.2 (requesting VMF data exchange using the MIL-STD-188-220 protocol) are categorized as "desirable and rated", the requirement 6.5.15.1 (requesting also VMF data exchange using the MIL-STD-188-220 protocol) is categorized as mandatory. Could you please clarify what categorization regarding MIL-STD-188-220 is to be applied for the referenced requirements or provide more details on the differences of the requirements?	The communication link layer MIL STD-188-220D w/Change 1 must be implemented and ready for the LCSS integration (out of the present scope). The 6.7.2.37.1 and 6.7.2.37.2 are desirable capabilities of the RAPM in the present scope.
3	Could you please clarify if we need to submit the filled BOE template with our offer (doc name: RFP TACS-E-Annex-BoE-EN-2020-09-21.xls) which you provided with the RFP documents? (We assume yes, but just to be sure as in the bid preparation instruction they only refer to Annex C and D which we need to submit with our Financial Proposal.)	The Basis of Evaluation document (BOE) is provided for information only, and does not need to be populated by the bidder. Canada will populate this table during evaluation, using information submitted in Annex C and Annex D.
4	The requirement states: "The LAPM must allow for manually specifying and enabling, as a minimum, the following types of reception filters for track data received on each sensor interface: 6.7.1.13.1. Duplicated data." In which scenarios and configurations could the TACS receive duplicated data from a single sensor, which data could be duplicated and at which level(s) they would they be duplicated (e.g. IP packets, messages, track updates, etc.)?	If the source is using the 'best effort' data transmission scheme or in certain radio relaying network, the same message from a source can be received several times at the destination.
5	The requirements state: "The LAPM must allow for the selection of the following data frame delimiters for each sensor interface: 6.7.1.17.1. North Marker / Pulse; and 6.7.1.17.2. Scan period," and "The LAPM must be able to receive and process, as a minimum, the following ASTERIX messages: 6.7.1.22.3. CAT 34 - Monoradar Service Messages as the North Marker and as Jamming Strobe (Ed. 1.27 and earlier)." o Q1. What processing is expected to occur with the North Marker/Pulse and Scan period? o Q2. What will the result of this processing be used for?	A1. Received data can be separated and stored based on the revolution / scanning period A2. This information can be used for the tracking process.

Contract No. - N° du Contrat
W8476-185751
Client Ref. No. - N° de réf. du client
W8476-185751

Amd. No. - N° de la modif.
009
File No. - N° du dossier
036qd. W8476-185751

Buyer ID - Id de l'acheteur
036qd
CCC No./N° CCC - FMS No./N° VME

6	<p>(a) Is there a standard, either military or civilian, that Bidders should comply with for the implementation of Airspace Collision Prevention function?</p> <p>(b) If the answer to (a) is yes, does the bidder have to seek certification to compliance with the standard?</p> <p>(c) If the answer to (a) is no, does the Crown have a preferred military or civilian standard they would like Bidders to use as a guideline for the implementation of the Airspace Collision Prevention function?</p>	<p>The Bidders are invited to propose a solution that is based on existing standards (military or civilian). The Crown does have any preference at this point. The Airspace Collision Prevention standards compliant certification is not in this SOW.</p>
7	<p>(a) Is there a standard, either military or civilian, that Bidders should comply with for the generation of ingress and egress routes function?</p> <p>(b) If the answer to (a) is yes, does the bidder have to seek certification to compliance with the standard?</p> <p>(c) If the answer to (a) is no, does the Crown have a preferred military or civilian standard they would like Bidders to use as a guideline for the implementation of the generation of ingress and egress routes function?</p>	<p>The Bidders are invited to propose a solution that is based on existing standards (military or civilian). The Crown does have any preference at this point. The Air Routes (Ingress/Egress) Generation standards compliant certification is not in this SOW.</p>

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.