ACQUISITION

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PART 1 - GENERAL INFORMATION

This bid solicitation is in response to Request for Information (RFI) W8485-175274 for Tactical Integrated Command, Control and Communications (TIC3 Air), Line of Effort 2 Fixed Tactical Data Link (TDL) Ground Entry Point (GEP)

1.1   Security Requirements

THIS DOCUMENT CONTAINS A SECURITY REQUIREMENT

Before award of a contract, the following conditions must be met:
the Bidder must hold a valid organization security clearance as indicated in
Part 6 - Resulting Contract Clauses;

For additional information on security requirements, Bidders should refer to the Contract Security Program of Public Works and Government Services Canada (http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html) website.

1.2   Requirement

1.2.1   This bid solicitation is being issued to satisfy the requirement of the Department of National Defense for Systems and Subsystems for the Fixed Central, Parent, and Child TDL GEP. It is intended to result in the award of two contracts to one successful bidder. The two contracts will be the Acquisition Contract (TIC 3 Air-001) and the (TIC 3 Air-002) In-Services Support Contract.

1.2.2   It is intended to result in the award of two contracts to one successful bidder. The two contracts will be Acquisition Contract (TDL-GET) and the In-Service Support Contract.

1.2.3   The contract will be for the provision of fifteen (15) Systems and Sub-systems along with associated preliminary Integrated Logistics Support (ILS) such as technical documentation, training and initial provisioning of spares. There will be an option to purchase up to two additional (2) TDL-GEP Systems, Training and Training Material.

1.2.4   The TIC 3 Air Contract will acquire In-Service Support (ISS) services, and system improvement services through a period of five (5) years plus two (2) one-year irrevocable option periods for ISS, and optional spares.

1.2.5   The ISS shall include Program Management Services, Engineering and Technical Support Services, Provision of Materiel, Maintenance Services and Configuration Management Services.

1.3   Debriefings

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

1.4   Canada Post Corporation's (CPC) Connect Service

"This bid solicitation allows bidders to use the CPC Connect service provided by Canada Post Corporation to transmit their bid electronically.

PART 2 - BIDDER INSTRUCTIONS

2.1   Summary

2.1.1   This solicitation is being issued to satisfy the requirement of the Department of National Defence for the acquisition, delivery, and support of the Tactical Data Link (TDL) Ground Entry Point (GEP) system. The TDL GEP is an integral solution that will be implemented and integrated as part of the Tactical Integrated Command Control Communications (TIC3) Air Projects, as listed in the Annex A, Acquisition Statement of Work and Annex C, Acquisition Basis of Payment.

2.1.2   The requirement is subject to the provisions of the Canadian Free Trade Agreement (CFTA).

2.2   Standard Instructions, Clauses and Conditions

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

The 2003 (2022-03-29) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of 2003 Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days
Insert: 13 months

2.3   Submission of Bids

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

Public Works and Government Services Canada
Bid Receiving Unit (BRU)
11 Laurier St.
Place du Portage
Phase III, Core 0B2
Gatineau, Quebec, K1A 0S5
Canada

Note: For bidders choosing to submit using Canada Post Corporation's (CPC) Connect service for bids closing at the Bid Receiving Unit in the National Capital Region (NCR) the email address is:

tpsgc.pareceptiondessoumissions-apbidreceiving.pwgsc@tpsgc-pwgsc.gc.ca

Note: **Bids will not be accepted if emailed directly to this email address**. This email address is to be used to open a CPC Connect conversation, as detailed in Standard Instructions 2003, or to send bids through a CPC Connect message if the bidder is using its own licensing agreement for CPC Connect service.

2.4   Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 15 calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

2.5   Applicable Laws

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

2.6   Bid Challenge and Recourse Mechanisms

(a)   Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.

(b)   Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's Buy and Sell website, under the heading "Bid Challenge and Recourse Mechanisms" contains information on potential complaint bodies such as:

- Office of the Procurement Ombudsman (OPO)
- Canadian International Trade Tribunal (CITT)

(c)   Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1   Bid Preparation Instructions

- f the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. The CPC Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

Canada requests that the Bidder submits its bid in separately bound sections as follows:
        Section I: Technical Bid
        Section II: Financial Bid

Section III: Certifications
Section IV: Additional Information

- If the Bidder chooses to submit its bid in hard copies, Canada requests that the Bidder submits its bid in separately bound sections as follows:

Section I: Technical Bid (01 hard copy) and 01 soft copy on a USB key

Section II: Financial Bid (01 hard copy) and 01 soft copy on a USB key

Section III: Certifications (01 hard copy) and 01 soft copy on a USB key

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

- If the Bidder is simultaneously providing copies of its bid using multiple acceptable delivery methods, and if there is a discrepancy between the wording of any of these copies and the electronic copy provided through CPC Connect service, the wording of the electronic copy provided through CPC Connect service will have priority over the wording of the other copies.

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

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

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement (https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573). To assist Canada in reaching its objectives, bidders should:

1) Include all environmental certification(s) relevant to your organization (e.g., ISO 14001, Leadership in Energy and Environmental Design (LEED), Carbon Disclosure Project, etc.)
2) Include all environmental certification(s) or Environmental Product Declaration(s) (EPD) specific to your product/service (e.g., Forest Stewardship Council (FSC), ENERGYSTAR, etc.)
3) Unless otherwise noted, bidders are encouraged to submit bids electronically. If hard copies are required, bidders should:
   a. use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
   b. use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Bid

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

Section II: Financial Bid

Bidders must submit their financial bid in accordance with each Basis of Payment identified in Annex C of this document.

Bidders should include the following information in their financial bid:

1. Their legal name;

2. The name of the contact person (including this person's mailing address, phone and email address) authorized by the Bidder to enter into communications with Canada with regards to: their bid; and any contract that may result from their bid.

3.1.1   Electronic Payment of Invoices – Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex "L" Electronic Payment Instructions to identify which one is accepted.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.1.2   Exchange Rate Fluctuation

C3011T (2013-11-06), Exchange Rate Fluctuation: The requirement does not offer exchange rate fluctuation risk mitigation. Requests for exchange rate fluctuation risk mitigation will not be considered. All bids including such provision will render the bid non-responsive.

3.1.3   SACC Manual Clauses

> A9130T (2019-11-28), Controlled Goods Program – Bid
> B1000T (2014-06-26), Condition of Material – Bid
> B4051T (2014-06-26), Provisioning Parts Breakdown **–** Bid

Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

Section IV: Additional Information

Unless specified otherwise, 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.

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.

4.1.1   Phased Bid Compliance Process

Canada is conducting the PBCP described below for this requirement. (b) Notwithstanding any review by Canada at Phase I or II of the PBCP, Bidders are and will remain solely responsible for the accuracy, consistency and completeness of their Bids and Canada does not undertake, by reason of this review, any obligations or responsibility for identifying any or all errors or omissions in Bids or in responses by a Bidder to any communication from Canada. THE BIDDER ACKNOWLEDGES THAT THE REVIEWS IN PHASE I AND II OF THIS PBCP ARE PRELIMINARY AND DO NOT PRECLUDE A FINDING IN PHASE III THAT THE BID IS NON-RESPONSIVE, EVEN FOR MANDATORY REQUIREMENTS WHICH WERE SUBJECT TO REVIEW IN PHASE I OR II AND NOTWITHSTANDING THAT THE BID HAD BEEN FOUND RESPONSIVE IN SUCH EARLIER PHASE. CANADA MAY DEEM A BID TO BE NON-RESPONSIVE TO A MANDATORY REQUIREMENT AT ANY PHASE. THE BIDDER ALSO ACKNOWLEDGES THAT ITS RESPONSE TO A NOTICE OR A COMPLIANCE ASSESSMENT REPORT (CAR) (EACH DEFINED BELOW) IN PHASE I OR II MAY NOT BE SUCCESSFUL IN RENDERING ITS BID RESPONSIVE TO THE MANDATORY REQUIREMENTS THAT ARE THE SUBJECT OF THE NOTICE OR CAR, AND MAY RENDER ITS BID NON RESPONSIVE TO OTHER MANDATORY REQUIREMENTS. (e) The PBCP does not limit Canada's rights under Standard Acquisition Clauses and Conditions (SACC) 2003 (2022-03-29) Standard Instructions – Goods or Services – Competitive Requirements nor Canada's right to request or accept any information during the solicitation period or after bid solicitation closing in circumstances where the bid solicitation expressly provides for this right. (f) Canada will send any Notice or CAR by any method Canada chooses, in its absolute discretion. The Bidder must submit its response by the method stipulated in the Notice or CAR. Responses are deemed to be received by Canada at the date and time they are delivered to Canada by the method and at the address specified in the Notice or CAR. An email response permitted by the Notice or CAR is deemed received by Canada on the date and time it is received in Canada's email inbox at Canada's email address specified in the Notice or CAR. A Notice or CAR sent by Canada to the Bidder at any address provided by the Bidder in or pursuant to the Bid is deemed received by the Bidder on the date it is sent by Canada. Canada is not responsible for late receipt by Canada of a response, however caused.

4.2   Evaluation Methodology

All bids will be evaluated from both a technical and financial point of view, with technical compliance worth 65% of a bids evaluation points and financial bids worth 35%. Technical compliance will be a combination of satisfaction of mandatory requirements contained in the Statement of Work documents and the Specifications and scoring of rated requirements within those same documents.

4.2.1 Technical Evaluation

Each proposal will be evaluated from a technical point of view to verify whether and how the mandatory requirements are satisfied and to score the rated requirements through Annex F – Compliance and Evaluation Matrix.

To demonstrate that their products meet all selected technical specifications mentioned above, Bidders must submit with their bid *proof of compliance*. A proof of compliance is defined as a document, such as a brochure and/or technical literature and/or a third party test report provided by a nationally and/or internationally recognized testing facility and/or a report generated by a nationally and/or internationally recognized third party software. The document must provide detailed information on each performance mandatory technical evaluation criteria. Canada will evaluate only the

documentation provided with a Bidder's bid. Canada will not evaluate information such as references to Web site addresses where additional information can be found, or technical manuals or brochures not submitted with the bid.

The Bidder must clearly demonstrate how the proposed equipment complies with each mandatory technical evaluation criteria listed in the Annex F tables "Compliance and Evaluation Matrix \ Statement of Work (SOW) Compliance" and "Compliance and Evaluation Matrix \ System Performance Specification (SPS) Compliance".

Where it is necessary to refer to other documentation that is included in the proposal, Bidders must include the precise location of the reference material including the title of the document, and the page and paragraph numbers. It is the Bidder's responsibility to provide enough details to permit a complete evaluation. Any proposal that does not clearly demonstrate compliance with each of the mandatory technical evaluation criteria listed in Annex F – Compliance and Evaluation Matrix will be considered non-responsive.

Rated Technical Score Calculation. The Technical Points for each proposal will be obtained from the evaluation in accordance with Annex F – Compliance and Evaluation Matrix.

a. The maximum potential technical points total is 550. Based on the percentage of technical points achieved on a bid, the maximum technical evaluation score is 65.

b. The example below depicts how the Technical Points are calculated.

	Total Score	Technical Points Calculation	Technical Points
Bidder 1	360	360 * 65 / 550	42.54
Bidder 2	420	420 * 65 / 550	49.64
Bidder 3	260	260 * 65 / 550	30.73

4.2.2. Financial Evaluation

A Bidder's financial proposal will be evaluated based on the table shown in Annex E – Basis of Evaluation. The table will be populated for a given Bidder by the evaluation team using Annex C – Acquisition Basis of Payment, and Annex D – ISS Basis of Payment. The table will use the shown calculations and weightings to determine a Bidder's Final Weighted Financial Bid, which will then be compared against the lowest received Final Weighted Financial Bid to award a Pricing Score (see Section 4.3). It is important to note, that the Final Weighted Financial Bid does not represent the overall bid value, as there are weightings that have been applied.

For the purposes of evaluation, a Bidder's hourly rates will be averaged over the total potential length of the In Service Support Contract for each labour category, including option years. Similarly, the average monthly ISSC rate will be used, calculated over the length of the ISSC, including option years.

The Financial proposal will be evaluated in Canadian dollars, Transportation/ Shipping charges: Included, Canadian Customs/Duties: Included, Quebec Sales Tax (QST), or Ontario Sales Tax (HST), excluded.

Pricing submitted in a foreign currency will be converted to Canadian dollars based on the exchange rate provided by the Bank of Canada, at noon on the date of Bid closing. Unless otherwise stated by the Bidder, it will be assumed that the bid is being submitted in Canadian currency.

4.3. Basis of Selection

a. To be declared responsive, a proposal must:
   1. Comply with all the requirements of the bid solicitation;
   2. Meet all mandatory criteria; and
   3. Successful demonstration of all specified mandatory and rated technical requirements outlined in the Annex G – Demonstration Plan for which the Bidder has been awarded technical points.
      (i) If the demonstration is not successful due to failure to satisfy 1 or more mandatory requirements the proposal shall be considered non-compliant and will not be given further consideration.
      (ii) If the demonstration is not successful due to failure to satisfy 1 or more rated requirements the proposal will be re-scored accordingly and;
         (a) Will be recommended for contract award if it is still the 1st ranked compliant proposal. If not,
         (b) The next highest scored compliant proposal will be invited for demonstration.
b. Bids not meeting 4.3.a.1 or 4.3.a.2 will be declared non-responsive.
c. The selection will be based on the highest responsive combined rating of Technical Merit Score and Pricing Score. The ratio will be 65% for technical merit and 35% for price.
d. 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 divided by 550 (maximum number of Technical Points) and then multiplied by 65.
e. To establish the Pricing Score, each responsive bid will be prorated against the lowest evaluated Final Weighted Financial Bid and the ratio of 35%.
f. For each responsive bid, the Technical Merit Score and the Pricing Score will be added to determine its Combined Rating.
g. The responsive bid with the highest combined rating of Technical Merit Score and Pricing Score will be recommended for contract award.

The table below illustrates an example where all three bids are responsive and the selection of the Bidder is determined by a 65/35 ratio of technical merit and price, respectively. The total available points equals 400 and the lowest evaluated Final Weighted Financial Bid is $5,250,000.

Basis of Selection - Highest Combined Rating Technical Merit (65%) and Price (35%)

		Bidder 1	Bidder 2	Bidder 3
	Overall Technical Score	360	420	260
	Final Weighted Financial Bid	7,850,000	9,500,000	5,250,000
Calculations	**Technical Merit Score**	360 * 65/550 = 42.54	420 * 65/550 = 49.64	260 * 65/550 = 30.73
	Pricing Score	5250000/7850000 x 35 =	5250000/9500000 x 35 =	5250000/5250000 x 35 =

		23.41	19.34	35.00
	Combined Rating	65.95	68.98	65.73
	Ranking	2	1	3

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.

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 the Bid

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

5.1.1   Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the Forms for the Integrity Regime website (http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html), to be given further consideration in the procurement process.

5.1.2   Security Requirements – Required Documentation

Bidders are reminded to obtain the required security clearance and, as applicable, security capabilities promptly. As indicated above, bidders who do not provide all the required information at bid closing will be given the opportunity to complete any missing information from the AFR form within a period set by the Contracting Authority. If that information is not provided within the timeframe established by the Contracting Authority (including any extension granted by the Contracting Authority in its discretion), or if Canada requires further information from the bidder in connection with assessing the request for security clearance (i.e., information not required by the AFR form), the Bidder will be required to submit that information within the time period established by the Contracting Authority, which will not be less than 48 hours. If, at any time, the Bidder fails to provide the required information within the timeframe established by the Contracting Authority, its bid will be declared non-compliant.

5.1.3   Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the Employment and Social Development Canada (ESDC) - Labour's website (https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#).

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

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

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

5.1.4   Former Public Servant

A3025T (2020-05-04) Contracts awarded to former public servants (FPS) in receipt of a pension or of a lump sum payment must bear the closest public scrutiny, and reflect fairness in the spending of public funds. In order to comply with Treasury Board policies and directives on contracts awarded to FPSs, bidders must provide the information required below before contract award. If the answer to the questions and, as applicable the information required have not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to comply with Canada's request and meet the requirement within the prescribed time frame will render the bid non-responsive.

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   Security Requirements

The following security requirements (SRCL and related clauses provided by the Contract Security Program) apply and form part of the Contract:

1. The Contractor must, at all times during the performance of the Contract, hold a valid Designated Organization Screening (DOS), issued by the Contract Security Program (CSP), Public Works and Government Services Canada (PWGSC).
2. The Contractor personnel requiring access to PROTECTED information, assets or sensitive site(s) must EACH hold a valid RELIABILITY STATUS, granted or approved by the CSP, PWGSC.
3. The Contractor MUST NOT remove any PROTECTED information or assets from the identified site(s), and the Contractor must ensure that its personnel are made aware of and comply with this restriction.
4. Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of the CSP, PWGSC.
5. The Contractor must comply with the provisions of the:

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

b)   Contract Security Manual (Latest Edition).

6.2   Statement of Work

The Contractor must perform the Work in accordance with all Statement of Works, Performance Specifications and the technical and management portions of the Contractor's proposal entitled _____, dated _____.

6.2.1 Condition of Material

The Contractor must provide material that is new production of current manufacture supplied by the principal manufacturer or its accredited agent. The material must conform to the latest issue of the applicable drawing, specification and part number, as applicable, that was in effect on the bid closing date.

6.3   Standard Clauses and Conditions

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

6.3.1   General Conditions

2010A (2022-12-01), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.3.2   Supplemental General Conditions

4001 (2015-04-01), Hardware Purchase, Lease and Maintenance excluding Lease
4002 (2010-08-16), Software Development or Modification Services
4006 (2010-08-16), apply to and form part of the Contract.

6.4   Term of Contract

6.4.1   Period of the Contract

The Contract period shall be for 36 months from the date of Contract award.

6.4.2   Delivery Date

All the deliverables under the acquisition contract must be received no later than 24 months after contract award.

6.4.3   Option to Extend the Contract

The Contractor grants Canada the irrevocable option to purchase optional equipment for a period of 36 months from the date of Contract award. The Contracting Authority will advise the Contractor, in writing, if optional equipment is required by DND.

6.5   Authorities

6.5.1   Contracting Authority

The Contracting Authority for the Contract is:

Oscar Garate
Supply Team Leader
Public Works and Government Services Canada, Acquisitions Branch
Directorate: Electronics, Munitions and Tactical Systems Procurement Directorate (EMTSPD)
Address: PDP 3, Place du Portage
Telephone: 873 355 3354
E-mail address: Oscar.Garate@tpsgc-pwgsc.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.

6.5.2   Technical Authority

The Technical Authority for the Contract is:

To be filled in at Contract Award.

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.

6.5.3   Procurement Authority

The Procurement Authority for the Contract is:

To be filled in at Contract Award.

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for all matters concerning the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority; however the Procurement 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.

6.5.4   Contractor's Representative

To be filled in at Contract Award.

6.6   Payment

6.6.1   Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under this Contract, the Contractor will be paid firm prices in accordance with Annex C Basis of Payment.

The following Basis of Payment terms will apply:

FOB Destination Incoterms 2020   Delivery Duty Paid (DDP)
Transportation/ Shipping charges: Included
Canadian Customs/Duties: Included
GST/QST/HST: Extra

6.6.2   Multiple payments

H1001C (2008-05-12)   Canada will pay the Contractor upon completion and delivery of units in accordance with the payment provisions of the Contract if: 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; all such documents have been verified by Canada; the Work delivered has been accepted by Canada.

6.6.3   Limitation of Price

SACC Manual clause C6000C (2017-08-17)

6.6.4   Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using a Direct Deposit (Domestic and International) and/or Wire Transfer (International Only).

6.7   Delivery, Inspection and Acceptance

6.7.1   Delivery Point
The Contractor must ship the goods prepaid DDP - Delivered Duty Paid to 25 Canadian Forces Supply Depot (CFSD) by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the Depot Traffic Section at the appropriate location shown below. The consignee may refuse shipments when prior arrangements have not been made.

25 CF Supply Depot Montreal,
6363 Notre Dame St. E.
Montreal, Quebec H1N 3V9

6.7.2   Invoicing Instructions

Invoices must be distributed as follows:
(a) The original invoice and one copy to the Consignee (25 CFSD);
(b) One (1) Copy to the Contracting Authority; and

(c) One (1) copy to the Procurement Authority.

6.7.3   Packaging

The Contractor must prepare all items for delivery in accordance with the latest issue of the Canadian Forces Packaging Specification *D-LM-008-036/SF-000*, DND Minimum Requirements for Manufacturer's Standard Pack.

The Contractor must package all items in quantities of one per package.

6.7.4   Inspection and Acceptance

The Technical Authority is the Inspection Authority. All reports, deliverable items, documents and goods rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document or good not be in accordance with the Requirements and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

6.7.5   Quality Control
D5515C (2010-01-11) Quality Assurance Authority (Department of National Defence) - Foreign-based and United States Contractor

6.7.6   Release documents

The Contractor must prepare the release documents in a current electronic format and distribute them as follows:

a.   One (1) copy mailed to consignee marked: "Attention: Receipts Officer";
b.   Two (2) copies with shipment (in a waterproof envelope) to the consignee;
c.   One (1) copy to the Contracting Authority;
d.   One (1) copy to:
National Defence Headquarters
MGen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A 0K2
Attention: DAP 7-3-6

6.8   Certifications and Additional Information

6.8.1   Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.9   Applicable Laws

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

6.10   Priority of Documents

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

(a)   the Articles of Agreement;
(b)   the general conditions 2010A, (2022-12-01);
(c)   Annex C, Acquisition Basis of Payment and Annex D, ISS Basis of Payment;
(d)   Annex A, Acquisition Statement of Work and Annex B, ISS Statement of Work;
(e)   Contractor's bid dated _____ (*insert date of bid*)

6.11   Defence Contract

SACC Manual clause A9006C (2012-07-16)

6.12   *SACC Manual* Clauses

B7500C (2006-06-16) Excess Goods

C2000C (2007-11-30) Taxes - Foreign-based Contractor

D0050C (2007-05-25) End User Certificate

D6010C (2007-11-30) Palletization

D9002C (2007-11-30) Incomplete Assemblies

6.13   Dispute Resolution

(a)   The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.

(b)   The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.

(c)   If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.

(d)   Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "Dispute Resolution".

PART 7 - RESULTING IN-SERVICE SUPPORT CONTRACT CLAUSES

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

7.1   Security Requirements

THIS DOCUMENT CONTAINS A SECURITY REQUIREMENT
Before award of a contract, the following conditions must be met:
the Bidder must hold a valid organization security clearance as indicated in
Part 6 - Resulting Contract Clauses;

For additional information on security requirements, Bidders should refer to the Contract Security Program of Public Works and Government Services Canada (http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html) website.

7.2   Statement of Work

The Contractor must perform the Work in accordance with the Annex B – In-Service Support Statement of Work.

7.2.1   Nature of Work

The Department of National Defence (DND) has a requirement for the provision of Basic Maintenance and Support for TIC3 Air Tactical Data Link (TDL) Ground Entry Point (GEP) as detailed in Annex B – In-Service Support Statement of Work.

7.2.2   Categories of Work

The work is broken down into two categories:

1)   Continuous Work Requirement

The Contractor must provide software updates and bug fixes, progress reports and RSPL updates as defined in Annex B – In-Service Support Statement of Work.

2)   All other taskings including

The Contractor must provide the following:
Systems and Software Upgrade, General Engineering and Maintenance Services (GEMS), Integrated Logistic Support, as defined in Annex B – In-Service Support Statement of Work

7.2.3   Work Authorization Procedures:

Each Task will only be performed by the Contractor when a duly authorized Task Authorization has been issued by Canada, in accordance with the Contract sub-article entitled "Task Authorization Limitations" using a DND 626, entitled "Task Authorization". DND is not bound to issue the Tasks indicated in the Contract and reserves the right to change Task details as well as issue other Tasks. Refinement of the details of each Task assigned will be described in an individual DND 626 provided by DND. All other terms and conditions of the Contract apply to this Task Authorization method and cannot be amended without written authorization by the CA.

Work must be subject to written technical instructions detailed in a DND 626, signed by the TA and approved by Canada as required.

The Task SOW is used to:

a. Request the Contractor to perform the Work defined in the DND 626;

b. Provide directions to the Contractor to pursue certain lines of inquiry, to shift work emphasis, fill in details or otherwise serve to accomplish the Task(s); and

c. Provide guidelines to the Contractor which assist in the interpretation of drawings, specifications or technical portions of Work description.

Work defined in a DND 626 must be within the general Scope of Work stated in the Contract.

The Contractor must control all Work by the serial numbers assigned to all DND 626s.

TASKING PROCEDURES:

The DND 626 "Task Authorization" form is the Task Authorization method that will be used to authorize specific Tasks under this Contract and the following administrative process applies:

a.   Prior to issuing a Task Authorization, the TA will prepare a draft Task SOW fully describing the Scope of Work required for the Task and specifying the details listed in the sub article (b) below.

b.   The TA will submit this draft Task SOW (without the DND 626 form) through the PA to the Contractor specifying the funding limitation for the Task, the Work requirement, the acceptance criteria for the Work, the types of reports required, and the scheduled date of completion. The PA must ensure that the Task is within the Scope of Work for this Contract.

c.   The PA will request that the Contractor review the Task SOW and provide an accurate quote within a specified time limit, using the rates established in the Contract and based on the Contractor's Level of Effort (LOE) needed to complete the Task. The LOE quote must provide an accurate cost estimate and schedule for producing the requested deliverables. The LOE quote must clearly identify all the applicable charges.

d.   The Contractor must, within the time limit specified by the TA or its designated representatives, provide the LOE quote and/or notify the TA of the status of the proposed Task SOW response. Should the time limit specified by the TA not be sufficient, the Contractor must submit the LOE quote within a time period that is mutually acceptable to the TA and the Contractor.

e.   The Contractor must ensure that the requested Task does not exceed the Scope of Work for this Contract and that the Contractor is fully capable of producing the requested deliverables by achieving the essential functions at the lowest cost consistent with the required performance, reliability, quality and safety. Should the Contractor have any doubt with respect to the Work requested in the DND 626, the Contractor must submit DND 626 change recommendations to the PA prior to acceptance of the Task Authorization (DND 626).

f.   The Contractor must submit to the TA through the PA, the following written details:

i. The estimated labour hours, the total estimated cost, calculated in accordance with the terms and conditions of the Contract;

ii. A list of personnel (including their associated Labour Category and labour Rate) assigned to perform the Task;

iii. The schedule for completion of the Work;

iv. An activity resource listing; and

v. The Contractor's acceptance or rejection of the proposed Task SOW, subject to receipt of a certified Task Authorization (DND 626).

g.   The Contractor must include, in the cost estimate referred to above, all applicable charges, including direct labour charges, material, subcontracting, travel and living expenses, applicable profit/fees, and applicable taxes - all in accordance with Annex B2 - Basis of Payment of the Contract.

h.   Once the TA, PA and the Contractor have understood and agreed with the Task details, the TA will review the LOE quote with the PA and in accordance with the Contract sub-article entitled "Approval Limitations", seek approval to proceed as follows:

i.   If the LOE quote is within the DND Task approval, ceiling listed in the Contract sub-article entitled "Approval Limitations", the PA will sign the DND 626 form (with the Contractor approval Task SOW and LOE attached) and forward a signed copy to both the Contractor and the CA; or

ii.   If the quote exceeds DND's Task approval ceiling, the PWGSC CA must also review and sign the DND 626 (with the Contractor approved Task SOW and LOE attached) prior to DND releasing the Task Authorization to the Contractor.

j.   Work on any Task may not commence prior to the date that the DND 626 is signed by the applicable Canadian Government Authorities. The PA must ensure that the CA is forwarded a copy of all authorized DND 626 Task Authorizations regardless of the dollar value.

k.   If at any time it becomes evident to the Contractor that the following conditions are exceeded:

i. The authorized level of expenditure for a Task;
ii. The total value of all the Task Work;
iii. The approved schedule deadline; or
iv. The scope of Work.

The Contractor must immediately request an amendment to the Task Authorization. The request must refer to the original Task Authorization serial number (DND 626 #) and include a revised proposal with the appropriate justification for Canada's consideration. Under no circumstance is the authorized level

of expenditure to be exceeded. Canada will not pay for any Work that exceeds the authorized funding limitation.

l.   Amendments to the Work, cost or scope of the original DND 626 will require that a formal DND 626 amendment be created. Tasks originally approved by DND and within the amendment ceiling established in the Contract, will be approved by DND PA. All other amendments will be approved by DND and sent to the PWGSC CA for review and signature prior to releasing to the Contractor. DND must ensure that the CA is forwarded a copy of all authorized DND 626 amendments regardless of the dollar value.

The Contractor must complete any Tasks at the original price/scope if the approval authority rejects an amendment request. Additional Work on any Task may not commence prior to the date that the DND 626 Amendment is signed by the applicable Canadian Government Authorities.

TASK PRICING APPROACH: The LOE quote for each Task must clearly identify one of the following pricing approaches that the Contractor has selected for the Task:

a. The Contractor may submit a "Firm Price" quote to the TA when the Scope of Work for a DND 626, referred to herein as "Task", is clearly understood by both parties and no changes are anticipated in the Scope of the Work.

b. The Contractor may submit a "Ceiling Price" quote to the TA. The terms Ceiling Price is the maximum price that is to be paid to the Contractor and beyond which the Contractor will not receive additional compensation for the defined Work. In such a case, both parties agree prior to the Work authorization that the price may be subject to downward revision, based on the actual price on completion of the Task.

c. The "Firm Price" or "Ceiling Price" quote must be based on the rates identified in the Basis of Payment, attached as Annex D – Basis of Payment. All proposed prices and cost estimates must be supported by a detailed cost breakdown.

d. All amounts charged on a "Ceiling Price" basis must be subject to Government audit before or after payment of an invoice.

TASK APPROVAL LIMITATIONS: Work on any Task may not commence prior to the date that the DND 626 is signed by the applicable Canadian Government Authorities.

a.   The Approval Limitations for each Task Authorization are as follows:

i.   Procurement Authority (PA): For Work, up to $150,000.00 CDN for a signed DND 626; for amendment(s) to an existing DND 626 authorized by the PA, the aggregate value (Original DND value plus all Amendments) may not exceed $150,000.00 CDN.

ii.   PWGSC Contracting Authority (CA): Unlimited for any Task DND 626 costing more than $150,000.00 CDN. For amendment(s) to any existing Task authorized in aggregate value of more than $150,000.00 CDN.

b. In the event that the estimated price to complete a Task is anticipated to exceed $150,000.00 CDN, the DND 626 must first be authorized in writing by both the PA and CA. The Contractor must verify that both signatures are present prior to commencing Work.

TASK COMPLETION/CLOSURE PROCEDURES: The Contractor must monitor all Tasks issued under this Contract. If at any time the Contractor believes that a specific Task has been completed or has been inactive for a period of at least six (6) months, the Contractor must proceed as follows to request closure:

a. The Contractor must determine the final costs to Canada, itemized as necessary for each individual Task being considered for closure;

b. The Contractor must submit a letter to the TA (one copy each to PA and CA) requesting closure of the Task with reference to reports or letters concerning the Task as applicable;

c. Closure will be subject to TA written acceptance of final results of the Tasking. If acceptable, the TA will authorize closure at the detailed funding levels; and

d. In cases where authorized funds were not all expended to complete specific Tasks, these funds are considered returned to the Contract funding baseline for re-issuance/re-distribution as necessary.

7.3   Standard Clauses and Conditions

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

7.3.1   General Conditions

2010C (*2022-12-01*), General Conditions - Services (Medium Complexity) apply to and form part of the Contract.

7.3.2   Supplemental General Conditions

4001 (2015-04-01), Hardware Purchase, Lease and Maintenance shall apply to and form part of the contract;
4004 (2013-04-25) Maintenance and Support Services for Licensed Software, apply to and form part of the contract;
4005 (2012-07-16), Telecommunications Services and Products.
4006 (2010-08-16) Contractor to Own Intellectual Property Rights in Foreground Information, apply to and form part of the contract.

7.4   Term of Contract

7.4.1   Period of the Contract (ISS)

The period of the Contract is for five (5) years from the date the last TDL GEP system delivery and accepted.

7.4.2   Option to Extend the Contract

The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to two additional one (1) year period(s) under the same terms and conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions as set out in the Basis of Payment at Annex D. Canada may exercise this option at any time by sending a written notice to the Contractor at least thirty (30) calendar days before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a Contract amendment.

7.5   Authorities

7.5.1   Contracting Authority

The Contracting Authority for the Contract is:

Oscar Garate
Supply Team Leader
Public Works and Government Services Canada
Acquisitions Branch
Electronics, Munitions and Tactical Systems Procurement Directorate (EMTSPD)
Place du Portage, Phase II
11 rue Laurier, Gatineau, QC, K1A 0SK
Telephone: 873-355 3354
E-mail address: oscar.garate@tpsgc-pwgsc.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.

7.5.2   Technical Authority

The Technical Authority for the Contract is:

To be filled in at Contract award.

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.

7.5.3   Procurement Authority

The Procurement Authority for the Contract is:

To be filled in at Contract award.

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for all matters concerning the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority; however the Procurement 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.

7.5.4   Contractor's Representative

To be filled in at Contract award.

7.6   Payment

7.6.1   Basis of Payment

The Contractor shall be paid in accordance with Annex D – In-Service Support - Basis of Payment.

7.6.2   Limitation of Expenditure

7.6.2.1 Limitation of Expenditure - Contract

1. Canada's total liability to the Contractor under the Contract must not exceed (to be filled in at Contract award), Customs duties are subject to exemption and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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

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

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

7.6.2.2 Limitation of Expenditure – Task Authorizations

The Contractor will be reimbursed for the costs reasonably and properly incurred in the performance of the Work specified in the authorized Task Authorization (TA), as determined in accordance Annex D – In-Service Support - Basis of Payment, to the limitation of expenditure specified in the authorized TA.

Canada's liability to the Contractor under the authorized TA must not exceed the limitation of expenditure specified in the authorized TA. Customs duties are included and Applicable Taxes are extra.

No increase in the liability of Canada or in the price of the Work specified in the authorized TA resulting from any design changes, modifications or interpretations of the Work will be authorized

or paid to the Contractor unless these design changes, modifications or interpretations have been authorized, in writing, by the Procurement Authority (if under $150,000.00 CAD) or Contracting Authority (if over $150,000.00 CAD) before their incorporation into the Work

7.6.3   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.

7.6.4   Progress Payment

Progress Payment

1. The Contractor must submit a claim for payment using form PWGSC-TPSGC 1111, Claim for Progress Payment.

Each claim must show:
   a. all information required on form PWGSC-TPSGC 1111;
   b. all applicable information detailed under the section entitled "Invoice Submission" of the general conditions;
   c. a list of all expenses;
   d. expenditures plus pro-rated profit or fee;
   e. the description and value of the milestone claimed as detailed in the Contract.

Each claim must be supported by:
   a. a copy of time sheets to support the time claimed;
   b. a copy of the invoices, receipts, vouchers for all direct expenses, travel and living expenses;
   c. a copy of the monthly progress report.

2. The Goods and Services Tax or Harmonized Sales Tax (GST/HST), as applicable, must be calculated on the total amount of the claim before the holdback is applied. At the time the holdback is claimed, there will be no GST/HST payable as it was claimed and payable under the previous claims for progress payments.

3. The Contractor must prepare and certify one original and two (2) copies of the claim on form PWGSC-TPSGC 1111, and forward it to the Procurement Authority identified under the section entitled "Authorities" of the Contract for appropriate certification after inspection and acceptance of the Work takes place.

The Procurement Authority will then forward the original and two (2) copies of the claim to the Contracting Authority for certification and onward submission to the Payment Office for the remaining certification and payment action.

4. The Contractor must not submit claims until all work identified in the claim is completed.

7.6.5   Exchange Rate Fluctuation Adjustment

C3011T (2013-11-06), Exchange Rate Fluctuation: The requirement does not offer exchange rate fluctuation risk mitigation. Requests for exchange rate fluctuation risk mitigation will not be considered. All bids including such provision will render the bid non-responsive.

7.7   SACC Manual Clauses

SACC Reference	Section	Date
C0710C	Time and Contract Price Verification	2007-11-30
C2000C	Taxes – Foreign Based Contractor	2007-11-30
C2604C	Customs Duties, Excise Taxes and Applicable Taxes-Non Resident	2013-04-25
C2608C	Canadian Customs Documentation	2020-07-01
C2610C	Customs Duties - DND – Importer	2007-11-30
H1001C	Multiple Payments	2008-05-12
H1008C	Monthly Payment	2008-05-12

7.8   Delivery, Acceptance and Inspection

7.8.1   Addressing

Address labeling shall be clearly marked on a minimum of two (2) locations on each package. The following shall be observed:
(a)   Complete name of the consignee
(b)   Complete shipping address
(c)   Clear description of contents
(d)   Complete name of the consignee representative

7.8.2   Shipping Instructions

The Contractor must ship the goods prepaid DDP - Delivered Duty Paid to 25 CF Supply Depot, Montreal. Unless otherwise directed, delivery must be made by the most economical means.

7.8.3   Packaging

The Contractor must prepare all items for delivery in accordance with the latest issue of the Canadian Forces Packaging Specification *D-LM-008-036/SF-000*, DND Minimum Requirements for Manufacturer's Standard Pack.

The Contractor must package all items in quantities of one per package

7.8.4   Delivery

The Contractor must deliver the goods to 25 Canadian Forces (CF) Supply Depot by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the Depot Traffic Section at the appropriate location shown below. The consignee may refuse shipments when prior arrangements have not been made.

     25 CFSD Montreal
          6363 Notre Dame   ST. E
          Montreal, Quebec H1N 3V9
          Phone: XXXXXXXXXXX

7.8.5   Inspection and Acceptance

The Technical Authority is the Inspection Authority. All reports, deliverable items, documents and goods rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document or good not be in accordance with the Requirements and to the satisfaction of the Inspection Authority, as submitted, the Inspection

Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

7.8.6   Quality Control

D5515C (2010-01-11) Quality Assurance Authority (DND) - Foreign-based and United States Contractor.

D5510 (2022-05-12) Quality Assurance Authority (DND) - Canadian-Based Contractor

7.9   Invoicing Instructions

7.9.1   Invoicing Instructions:

Invoices shall be submitted not more than once a month for R&O Work performed under the Contract as per the following terms and conditions:

The Contractor shall forward the certified invoice as follows:

(a)   One (1) copy of the invoice to:
Contracting Authority
Department of Public Works and Government Services
Defence Communication Division (QD)
Place du Portage, Phase II, 6A1
11 Laurier Street
Gatineau, Québec
K1A 0S5

(b)   The original and One (1) copy to:
National Defence Headquarters
MGen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A 0K2
Attention: DAP 7-3-6

Each invoice/claim will show:

The Contractor shall submit invoices on its own form, and must include the following information:

(a) The Contract Serial Number;

(b) The DND Financial Coding as quoted in the DND 626;

(c) Task authorization requisition number;

(d) Engineering or technical support classification;

(e) Rate of payment and number of hours applicable to task (if ceiling price task) or milestone being claimed;

(f) Cost of materials related to the task; and

(g) Approved travel and living expenses related to the task;

(h) Receipts or other supporting documentation as required in the Contract and/or task.

Invoices will be distributed as shown under article 8.1 above.

Canada will only make payment upon receipt of a satisfactory invoice duly supported by specified release documents and any other documents called for under the Contract.

7.10   Certifications

7.10.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing associated 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, fails to provide the associated information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

7.11   Certifications and Additional Information

7.11.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

7.11.2 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "FCP Limited Eligibility to Bid" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms of the Contract.

7.12   Applicable Laws

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

7.13   Priority of Documents

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

(a)   the Articles of Agreement;
(b)   the supplemental general conditions 4001 (2015-04-01), Hardware Purchase, Lease and Maintenance;
(c)   the supplemental general conditions 4004 (2013-04-25) Maintenance and Support Services for Licensed Software;
(d)   the supplemental general conditions 4006 (2010-08-16) Contractor to Own Intellectual Property Rights in Foreground Information;
(e)   the general conditions 2010C (*2022-12-01*), General Conditions - Services (Medium Complexity);

(f)   Annex B, ISS - Statement of Work;
()   Annex D, ISS – Basis of Payment;
(g)   the Contractor's bid dated _____.

7.14   Defence Contract

SACC Manual clause <u>A9006C</u> (2012-07-16) Defence Contract

7.15   *SACC Manual* Clauses

A9131C (2014-11-27)   Controlled Goods Program
B4060C (2011-05-16)   Controlled Goods
B4019C (2015-02-25)   United States Military Specifications and Standards
B4061C (2008-05-12)   North Atlantic Treaty Organization Codification - Data Requirements
B7500C (2006-06-16)   Excess Goods
D2000C (2007-11-30)   Marking
D2001C (2007-11-30)   Labeling
D3010C (2014-06-26)   Delivery of Dangerous Goods/Hazardous Products
D3015C (2014-09-25)   Dangerous Goods/Hazardous Products-Labelling and Packaging Compliance
D5540C (2010-08-16)   ISO 9001:2008 Quality Management Systems - Requirements (QAC Q)
D5545C (2010-08-16)   ISO 9001:2008 Quality Management Systems - Requirements (QAC C)
D6010C (2007-11-30)   Palletization
D9002C (2007-11-30)   Incomplete Assemblies
K3030C (2010-01-11)   License to Material Subject to Copyright
G1005C (2008-05-12)   Insurance

ANNEX A

ACQUISITION – STATEMENT OF WORK

FIXED TACTICAL DATA LINK GROUND ENTRY POINT

W8475-235518/001

1 INTRODUCTION

This Statement of Work (SOW) defines the work required for the production, delivery, and initial support of the Tactical Data Link (TDL) Ground Entry Point (GEP) deliverable. The TDL GEP is an integral solution that will be implemented and integrated as part of the Tactical Integrated Command Control Communications (TIC3) Air Project to deliver an extended, flexible and reliable TDL infrastructure supporting domestic operations. This will enable the integration of the tactical information across the country, through Link-16, into an integrated and cohesive Recognized Air Picture (RAP) in a timely manner. The TDL GEP solution will equally allow for the improvement of the global situational awareness picture, with advanced air picture fusion and management capabilities, in support of airspace surveillance and air defense operations.

2 DELIVERABLES AND SCOPE OF WORK

The Supplier must deliver the items and services outlined in section 2 of this document in accordance with the Appendix A1 – *System Performance Specifications* (SPS) and the terms stipulated in the section 4 – General Instructions of this document.

2.1 System Deliverables

2.1.1 Fixed Central TDL GEP

The Supplier must deliver required systems and subsystems for Fixed Central TDL GEP.

2.1.2 Fixed Parent TDL GEP

The Supplier must deliver required systems and subsystems for Fixed Parent TDL GEPs.

2.1.3 Fixed Child TDL GEP

The Supplier must deliver required systems and subsystems for Fixed Child TDL GEPs.

2.2 Project Management

2.2.1 General Schedule Requirements

1. The Supplier must provide the Project Schedule at the Contract Award Meeting.

2. The Project Schedule must be updated at the Monthly Progress Review, and when requested by Canada.

3. The Project Schedule must be base-lined and clearly identify tasks, milestones and critical path.

2.2.2 Project Related Meetings (PRM)

1. Kick-off Meeting. The Supplier must conduct a meeting at their facility with Canada within 30 calendar days after contract award to discuss schedule and work, as well as milestones and deliverables.

2. Progress Review Meetings. The Supplier must conduct a Progress Review Meeting (PRM) on a quarterly basis with Canada to provide updates on the project. The PRM, can be held jointly

with any other design and technical meetings. The Supplier is not expected to travel for these meetings.

3. Project Close-Out Meeting. The Supplier must host and conduct a Project Close-Out (PCO) meeting with Canada after the last system and subsystems delivery to discuss any outstanding issues and support.

4. Unscheduled Meetings. Other meetings may be requested by the Supplier or Canada when issues arise that need to be solved. Upon agreement between all parties that such a meeting is required, the Supplier must participate in the meeting.

2.2.3 Reports

1. The Supplier must prepare and submit the report for each Project Related Meetings in accordance with CDRL, DID ACQ-PM-001.

2. The Supplier must prepare and deliver a Project Close-out Report in accordance with CDRL and DID ACQ-PM-002.

2.3 System Engineering

2.3.1 Preliminary Design Review (PDR)

1. A PDR must be held to review the conceptual and proposed systems design to meet all requirements in Appendix A1 – *System Specifications* to ensure that the planned technical approach will meet the requirements and that appropriate verification methods are identified.

2. The Supplier must produce a PDR Report in accordance with CDRL and DID ACQ-SE-001.

2.3.2 Critical Design Review (CDR)

1. A CDR must be held to review the detailed design of all requirements in Appendix A1 – *System Specifications* to ensure that the design implementation has met the requirements.

2. The Supplier must prepare and submit the updated System Design Specification (SDS) Document for delivered solution in accordance with CDRL and DID ACQ-SE-002. This must include the following:

    a. Products description;

    b. Systems Architecture;

    c. Sub-components Connection Diagram; and

    d. System Interface Control Document (ICD) of each data communication and processing sub-component.

3. The Supplier must produce a CDR Report in accordance with CDRL and DID ACQ-SE-003.

2.3.3 Factory Acceptance Test (FAT)

1. The Supplier must run a FAT at their facility and give Canada's team the option to attend in-person.

2. The Supplier must produce a FAT Plan as per CDRL/DID ACQ-TD-001.

3. The Supplier must produce a FAT Report as per CDRL/DID ACQ-TD-002.

2.3.4 System Acceptance Test (SAT)

1. The Supplier must plan and execute the SAT in coordination with Canada.

2. The SAT must be conducted in a live environment.

3. The Supplier must produce a System Acceptance Test (SAT) Plan as per CDRL/DID ACQ-TD-003.

4. The Supplier must produce a System Acceptance Test (SAT) Report as per CDRL/DID ACQ-TD-004.

2.4 Integrated Logistics Support (ILS)

2.4.1 ILS Program

The Supplier must implement and maintain the following ILS requirements for the delivered systems over the duration of the contract:

1. The Supplier must provide the following drawings, associated lists, and catalogue information:

   a. The information on systems, subsystems and constituent components, including reusable shipping and storage containers supplied by the Supplier that must be held by Canada to support operation, training, and maintenance, must be ready for cataloguing in the DND supply system;

   b. Where the Equivalent products have already been catalogued under a North Atlantic Treaty Organization (NATO) Stock Number (NSN), the Supplier must provide information which identifies the items to the satisfaction of Canada allowing for CAF adoption of those existing NSNs;

   c. Where accountable hardware and software items do not already have Unique Item Identifiers (UII), the Supplier must assign and affix UIIs to these items for their codification and cataloguing; and

   d. The technical documentation provided for the codification and cataloguing must include a Level-1 drawing package which conforms to the standards of D-01-400-001/SG-000, Engineering Drawings Practices.

2. The Supplier must provide technical publications and documentation to enable RCAF maintainers to operate and maintain the delivered systems. These publications and documents must include the following in English (and in French if available):

   a. Detailed Operating Instructions;

   b. Operating Limitations;

   c. Emergency Procedure documentation;

   d. Maintenance Instructions, supporting manuals and documentation required for preventative and corrective maintenance; and

e. ICD for external hardware and software interfaces.

2.4.2 Initial Cadre Training (ICT).

1. The Supplier must design the Operator and Maintenance courses to explain all operator functions, basic fault finding, and corrective maintenance tasks on the delivered systems.

2. Training Package

   a. The Training Package must be provided separately for Operator and Maintainer;

   b. The Supplier must deliver the Training Package and course presentation material in accordance with CDRL and DID ACQ-ILS-001. The training and course materials must be in English (and in French if available);

   c. The Supplier must submit to Canada a training package for each course, inclusive of training presentations and Recommended Training Materials List (RTML), no later than 1 month before that course; and

   d. The RTML must include training material, training aids, and any other Supplier delivered equipment that would be necessary for the conduct of the Operator and Maintainer courses as appropriate.

3. Conduct of Training.

   a. The Supplier must conduct Operator training for up to 12 RCAF personnel as an initial "Train the trainer" course. This course must be conducted at a location mutually agreed by Canada and the Supplier, no earlier than 4 weeks after the delivery of the systems for the first Fixed TDL GEP;

   b. The Supplier must conduct Maintainer training for up to 12 RCAF personnel as an initial "Train the trainer" course. This course must be conducted at a location mutually agreed to Canada and the Supplier, no earlier than 4 weeks after the delivery of the systems for the first Fixed TDL GEP.

3   OPTIONAL DELIVERABLES AND SCOPE OF WORK

3.1   Optional System Deliverables

3.1.1   Fixed Parent TDL GEP

The Supplier must allow for the optional purchase of systems and subsystems required for additional Fixed Parent TDL GEP.

3.1.2   Fixed Child TDL GEP

The Supplier must allow for the optional purchase of systems and subsystems required for additional 1 Fixed Child TDL GEPs.

3.1.3   Systems Installation and Integration

Canada will remain overall responsible for the site Installation and Integration and the associated scope of work.

1. When tasked, the Supplier must remain responsive and provide the requested support (on-site and off-site) to DND personnel for the installation and integration of delivered systems at the locations specified in Appendix A6 – *Installation Sites*.
2. The Supplier must respond with Price and Schedule, within 10 calendar days of receipt of the request for quote.
3. The Supplier must commence work, within 20 calendar days of receipt of the tasking request. Material lead time and force majeure are exemptions.

3.2 Optional Integrated Logistic Support

3.2.1 Operator Training

When tasked, the Supplier must conduct additional Operator training for up to 12 RCAF personnel.

3.2.2 Maintainer Training

When tasked, the Supplier must conduct additional Maintainer training for 12 RCAF personnel.

4 GENERAL INSTRUCTIONS

4.1 System Deliverables Instruction

4.1.1 Priority of Delivery

The systems and subsystems that are subjects of this SOW must be delivered in accordance with the Appendix A5 – *Priorities of Delivery*, and based on the following timelines:

1. Initial Deliverable Capabilities (IDC). Capabilities that must be fully operational and delivered no later than 12 months after the Contract award.

2. Final Deliverable Capabilities (FDC). Capabilities that must be fully operational and delivered no later than 24 months after the Contract award.

4.1.2 System Usage Restriction

The systems delivered as part of this SOW must not be subject to any restriction on its use by CAF.

4.1.3 Government Furnished Equipment

Canada will provide GFE as identified in the Specifications attached at, Appendix A4 *Government Furnished Equipment and Materiel*, where needed and requested by the Supplier.

4.2 Project Management Instruction

4.2.1 Meeting Organization

The following requirements must be applicable for all meetings throughout the execution of the acquisition:

1. Unless specified otherwise, the Supplier must conduct all meetings at Supplier's facility.
2. The Supplier must conduct all meetings in person, unless coordinated otherwise with Canada.
3. All remote meetings will be done using government of Canada conferencing applications.

4.3 Cyber Security

4.3.1 Background

Canada has a national security plan to respond to a range of national security threats. The national security plan includes ensuring that products meet cyber-security standards that are required for all procured communication equipment and systems.

4.3.2 Fundamental Plan

The Supplier must provide a Cyber Security Fundamental plan for the Fixed TDL GEP which meets the objectives of the following reference:

1. Top 4 Strategies to Mitigate Targeted Cyber Intrusions, Canadian Cyber Incident Response Centre, May 2019, https://www.publicsafety.gc.ca/cnt/ntnl-scrt/cbr-scrt/_fl/tp-strtgs-eng.pdf.

4.3.3 Common Vulnerabilities

The Deployable TDL GES must be protected against all known vulnerabilities as those listed in the MITRE Common Vulnerabilities and Exposure (CVE) database (https://cve.mitre.org/data/downloads/index.html)

4.4 Travel and Living

4.4.1 Travel Authorization Request

1. In support of systems integration and additional work requests, the Supplier will be reimbursed its authorized travel and living expenses which must be reasonably and properly incurred in the performance of the task, 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, (https://www.njc-cnm.gc.ca/directive/travel-voyage/index-eng.php), and with the other provisions of the directive referring to "travelers", rather than those referring to "employees".

2. All travel authorization request (TAR) must be submitted and approved in advance and in writing by the DND Procurement Authority (PA) prior to making any travel arrangements.

3. The TAR must include the estimate of all travel and living costs in accordance with the paragraph 1 in this Sub-section 4.4.1.

4.4.2 Reimbursement

1. The Supplier must provide the details of the travel and living expenses with each claim including copies of invoices, and remit original receipts to the PA for reimbursement. All travel and living expenses are subject to Government Audit before or after the claim is paid.

2. Travel and Living expenses shall not be reimbursed where the costs are associated with the deliverables in accordance with Section 2.

3. Travel and expenses will be reimbursed in full in support of all other activities in accordance with Section 3.

APPENDIX A1

SYSTEM PERFORMANCE SPECIFICATIONS

FIXED TACTICAL DATA LINK GROUND ENTRY POINT

W8475-235518/001

1   INTRODUCTION

This Statement of Work (SOW) defines the work required for the production, delivery, and initial support of the Tactical Data Link (TDL) Ground Entry Point (GEP). The TDL GEP is an integral solution that will be implemented and integrated as part of the Tactical Integrated Command Control Communications (TIC3) Air Project to deliver an extended, flexible and reliable TDL infrastructure supporting domestic operations. This will enable the integration of the tactical information across the country, through Link-16, into an integrated and cohesive Recognized Air Picture (RAP) in a timely manner. The TDL GEP solution will equally allow for the improvement of the global situational awareness picture, with advanced air picture fusion and management capabilities, in support of airspace surveillance and air defense operations.

2   SYSTEMS DESCRIPTION

2.1   Systems Definition

2.1.1   Fixed Central TDL GEP

1. The Fixed Central TDL GEP referred to as 'Central TDL GEP' or 'Central site', is the ground based manned Link-16 GEP which is implemented with the Fixed TDL GEP control and management functionalities that allow for the exchange of information on Link-16 network directly through an equipped Link-16 terminal, and through the Link-16 terminal at remotely controlled Fixed TDL GEPs.

2.1.2   Fixed Parent TDL GEP

1. The Fixed Parent TDL GEP referred to as 'Parent TDL GEP' or 'Parent site', is the ground-based Link-16 GEP which is implemented with the functionalities that allow it to function as a controlling Fixed TDL GEP, referred to as 'Parent mode' in the Fixed TDL GEP context, or a controlled Fixed TDL GEP, referred to as 'Child mode' in the Fixed TDL GEP context.

2. When operated in Parent mode, the Parent TDL GEP will be able to exchange the information on Link-16 network directly through an equipped Link-16 terminal, and through the Link-16 terminal at remotely controlled Fixed TDL GEPs.

3. When operated in Child mode, the Parent TDL GEP allows for the control of its Link-16 terminal remotely, and will enable the data communication between the Central TDL GEP and the Link-16 capable assets in the area.

2.1.3   Fixed Child TDL GEP

1. The Fixed Child TDL GEP referred to as 'Child TDL GEP' or 'Child site', is the ground based unmanned Link-16 GEP which is implemented with the functionalities that allow for the control of its Link-16 terminal remotely, and will enable the data communication between the controlling TDL GEP (Central or Parent) and the Link-16 capable assets in the area.

3   SYSTEM REQUIREMENTS

3.1   Operational Capabilities

As part of the TIC3 Air TDL proposed solution, the following capabilities will be implemented for the Fixed TDL GEP variants:

3.1.1 Remote Crypto Management (RCM)

This capability will enable the operator at the Central and Parent site to safely load the encrypted crypto segment (Black Key) into remote Link-16 terminal (of Child site) which is manually pre-loaded with monthly KEK. The delivered RCM solution needs to meet the following requirements:

1. The RCM must be operationally in use by members of NATO for the loading of the Black Key and possibly Red Key to the remote MIDS Variant (MV) through a secure Ethernet IP-based network. The MV term used in this document is referencing the MIDS LVT-1 BU-2 and MIDS JTRS.

2. The RCM must allow for loading the following types of Black Key into the remote CMV through a secure Ethernet IP-based network:

   a. The legacy encrypted Link-16 key; and

   b. The Crypto Modernized (CM) encrypted Link-16 key.

3. The RCM should provide a NATO certified Red Key solution which is allowing the operator to remotely load the Red Key into the CMV at more than 16 Child sites through a secure Ethernet IP-based network.

4. The typical RCM must be constituted of one or several Remote Key Loader(s) (RKL) and an active RKL Manager (RKLM) that are deployed at separate locations and connected through a secure Ethernet IP-based network.

5. RKLM Specifications

   a. The RKLM must provide a Graphical User Interface (GUI) for the remote Black Keys loading and monitoring operation. The Black Key term used in this document is referencing to all types of Black Key (Legacy and Modernized).

   b. The RKLM must allow the operator to establish the connection with RKL in one of the following controlling modes:

      (i.) Active; and

      (ii.) Backup.

   c. The RKLM must display its controlling mode (active or backup) on each of connected RKLs.

   d. The RKLM must allow the operator to import Black Keys from a connected media or storage device into the persistent data folder of the system.

   e. The RKLM should allow the operator to upload Black Keys into the system's persistent data folder directly from the following government furnished devices:

      (i.) NSA 87-27 Electronic Key Management System (EKMS); and

      (ii.) AN/PYQ-10 SKL.

   f. The RKLM should allow for storing at least 31 Black Keys in the persistent data folder of the system.

   g. The active RKLM must allow the operator to perform the following operations for remotely loading the Black Keys into a CMV through the connected RKL:

(i.) Select the Single Black Key mode of loading.

(ii.) Select the Multiple Black Keys mode of loading.

(iii.) Selection of one or multiple Black Keys from the persistent data folder on the system.

(iv.) Specification of slot number for each individual key or starting slot number for a multiple keys where the selected Black Keys will be loaded in.

(v.) Execution of the command and reception of the operation status from the corresponding RKL.

(1.) All functionalities of the GUI panel dedicated to the current remote crypto loading operation must temporarily be inoperable until reception of the confirmation.

h. The active RKLM must allow the operator to remotely load key into multiple CMVs concurrently without waiting for the confirmation from a RKL before moving on with another.

i. The active RKLM must allow the operator to monitor and distribute Black Keys to more than 16 remote CMVs at different locations, through a secure Ethernet IP-based network.

j. The RKLM should allow for the monitoring of, but not limited to, the RKLs status, current crypto keys, cipher mode (PT-Plaintext, CT-Cyphertext) and Black Key waveform (Link-16).

k. The RKLM should allow the operator to delete ('zeroize') the selected Black Keys and Red KEKs in the remote CMVs.

l. The RKLM should allow the operator to delete ('zeroize') all Black Keys in a remote CMV, and on all remote CMVs at once.

m. The RKLM should allow the operator to view the status of each 'zeroize' operation.

n. The active RKLM should allow the operator to push the configuration files and system software update to RKLs.

o. The RKLM must be operational on Microsoft Windows 10 and the latest release of Microsoft Windows operating system.

p. The RKLM must enforce access protection by implementing an authentication and authorization mechanism based on the username and password.

q. The RKLM must allow for video display through Digital Visual Interface (DVI), High-Definition Multimedia Interface (HDMI), or Display Port (DP) ports.

r. The RKLM must allow for the user enter the commands through the connected keyboard, mouse and monitor.

s. The RKLM must allow for importing data and configuration files from a connected media or storage device into the system.

t. The RKLM must allow for visualization of the system status through a coloured lights pattern or on an integrated digital display panel.

u. The persistent memory and data storage drive of the system must be removable.

v. The RKLM must meet the following specifications:

    (i.) Mount in a standard 19" wide by 24" deep rack.

    (ii.) Not exceed 1 rack unit in height.

    (iii.) Be operable at full capacity within the ambient temperature range from 0°C to +50°C.

    (iv.) Be operable at full capacity within the Relative Humidity range from 20% to 80% (non-condensing).

    (v.) Be storable without damage in the temperature range from -35°C to +65°C.

    (vi.) Be storable without damage in the Relative Humidity range from 10% to 90% (non-condensing).

    (vii.) Come with the protection for transportation that meet the following shock and vibration requirements:

        (1.) Comply with MIL-STD-810G Method 514.6, Procedure I (General Vibration).

        (2.) Comply with MIL-STD-810G Method 516.6, Procedure I (Functional Shock), IV (Transit Drop) and VI (Bench Handling).

w. The RKLM should have an integrated power supply that accept a universal 100-240VAC, 50 and 60Hz input.

6. RKL Specifications

a. The RKL must interface with the CMV by the terminal's 'Fill / Audio' port.

b. The RKL must allow the operator to establish the connection with up to 4 RKLMs simultaneously.

c. The RKL must accept the control from a single active RKLM at a time.

d. The RKL must implement required functionalities to support the remote Black Keys loading operations (for CMV) from the active RKLM through a secure Ethernet IP-based connection.

e. The RKL should implement required functionalities to support the remote 'Zeroize' commands from the connected and active RKLM.

f. The RKL must provide a web-based interface that enables the operator to perform the system monitoring and configuration.

g. The RKL must provide a pass through audio port to access to the CMV's J-Voice.

h. The RKL must record and allow the operator to access to all system and operational logs.

i. The RKL should allow the maintainer to connect a crypto fill device such as Simple Key Loader (SKL) to its DS-101 interface port and load the Red Keys into the connected CMV.

j. The RKL should allow the maintainer to zeroize selected Black Keys in the connected CMV.

k. The RKL must be operational on Microsoft Windows 10 and the latest release of Microsoft Windows operating system at the time of bid submission.

l. The RKL must enforce access protection by implementing an authentication and authorization mechanism based on the username and password.

m. The RKL must allow for video display through DVI, HDMI, or DP ports.

n. The RKL must allow for the user to enter commands through the connected keyboard, mouse and monitor.

o. The RKL must allow for importing data and configuration files from a connected media and storage device into the system.

p. The RKL must allow for visualization of the system status through a coloured lights pattern or on an integrated digital display panel.

q. The persistent memory and data storage drive of the system must be removable.

r. The RKL must meet the following environmental specifications:

    (i.) Mount in a standard 19" wide by 24" deep rack.

    (ii.) Not exceed 1 rack unit in height.

    (iii.) Be operable at full capacity within the ambient temperature range from 0°C to +50°C.

    (iv.) Be operable at full capacity within the Relative Humidity range from 20% to 80% (non-condensing).

    (v.) Be storable without damage in the temperature range from -35°C to +65°C.

    (vi.) Be storable without damage in the Relative Humidity range from 10% to 90% (non-condensing).

    (vii.) Come with the protection for transportation that meet the following shock and vibration requirements:

        (1.) Comply with MIL-STD-810G Method 514.6, Procedure I (General Vibration).

        (2.) Comply with MIL-STD-810G Method 516.6, Procedure I (Functional Shock), IV (Transit Drop) and VI (Bench Handling).

    (viii.) Accept a universal 100-240VAC, 50/60Hz input.

7. The RCM system must be fully ready at Contract Award for the verification by Communication Security Establishment Canada (CSEC) which is part of the Approval for Use (AFU) process in Canada.

3.1.2 Remote Environmental Monitoring (REM)

This capability will enable the operator at the Central or Parent site to monitor the environmental conditions such as intrusion, temperature, humidity, power supply at remote Child sites. The delivered REM solution needs to implement, but is not limited to, the following requirements:

1. The REM solution must be able to continuously monitor the physical environment of more than 16 remote Child sites and alert the operator at Central or Parent site of any abnormality against the pre-configured thresholds for the following environmental events and conditions:

a. Unauthorized intrusion;

b. Out-of-configured temperature ranges;

c. Out-of-configured humidity ranges; and

d. Power failure.

2. The REM solution should allow the operator at the Central or Parent site to remotely turn on the local networked computer based systems at the Child sites through a secure Ethernet IP-based network.

3. The typical REM solution must be constituted of one or several Remote Environmental Surveillance (RES) unit(s) and an active RES Manager (RESM) that are deployed at separate locations and connected together through a secure Ethernet IP based network.

4. <u>RES Manager Specifications</u>

a. The RESM must be a software-based utility running on Microsoft Windows 10 and the latest release of Microsoft Windows host computer

b. The RESM must be able to communicate with more than 16 remote RES units simultaneously through an established Ethernet IP based network.

c. The RESM must enable the access authentication and authorization mechanism for the remote RES based on the username and password method.

d. The RESM must allow the operator at Central or Parent site to configure, monitor and control the remote RES units through a GUI.

e. The RESM must allow for the configuration of the following environmental parameters of each remote Child site:

    (i.) Surveillance threshold for each type of sensor (alert triggering points);

    (ii.) Sensor data updating rate;

    (iii.) Non-surveillance periods for the maintenance purpose;

    (iv.) Automatic response (action) for each type of alert;

    (v.) Notification method; and

    (vi.) Duration of alert.

f. The RESM must allow the operator at Central and Parent site to monitor and control more than 16 RES units simultaneously.

g. The RESM must allow for visualization of, but not limited to the following environmental information of each remote Child site:

    (i.) Most recent sensor data (updated at a configurable rate);

    (ii.) Configuration and status of deployed sensors.

    (iii.) List of active alerts;

    (iv.) Historic sensor data; and

    (v.) Historic alerts.

h. The RESM must allow for the configuration of automatic deletion of all Black Keys in the onsite CMV in response to the intrusion alert at each remote Child site.

i. The RESM should allow for the configuration of the following automatic actions in response to the temperature alert at each remote Child site:

   (i.) Activate the rack's ventilation fan if it hasn't been running yet; and

   (ii.) Adjust the rack's ventilation fan speed in accordance with the temperature.

j. The RESM must allow for enabling and disabling the configured automatic action for each type of alert at remote Child site.

k. The RESM must allow for the configuration of audible notification of an alert event.

l. The RESM must allow the operator to manually clear the alerts at a remote Child site.

m. The RESM must allow for visualization of the cleared alert list,

n. The RESM must allow the operator to manually enable and disable the configured alerts at remote Child site.

o. The RESM must allow for the remote update of RES firmware across the established secure Ethernet IP-based network.

p. The RESM must allow for the configuration of a list of high operational priority systems and equipment which will be maintained in operation during an input power failure event at each remote Child site.

q. The RESM should allow for the configuration of automatic idle/standby option for systems and equipment which are not on the high operational priority list, in response to the input power failure alert at each remote Child site.

r. The RESM should allow for the operator to power off all the systems and equipment at a selected Child site in response to the emergency situation by a single button pressed on the GUI.

5. RES Specifications

a. The RES must be a self-contained environmental monitor system operable with the universal 100-240VAC, 50/60Hz power input.

b. The RES must provide the backend implementation that supports all the configuration, monitoring and control functionalities which are available and enabled on the RESM.

c. The RES should allow the operator to access to its configuration, monitoring and control functionalities through the Web-based interface using Secure Sockets Layer (SSL) or Transport Layer Security (TLS) standards.

d. The RES must be able to monitor the following environmental conditions through its connected sensors:

   (i.) Doors position;

   (ii.) Indoors temperature;

   (iii.) Indoors humidity; and

   (iv.) Systems Rack's power input failure.

e. The RES must be able to monitor the indoors temperature with an accuracy of ±0.5 °C within the range from -20 °C to +80 °C.

f. The RES must be able to monitor the indoors relative humidity with an accuracy within ±2.0% on the range from 20% to 80%.

g. The RES must be able to monitor the doors position with an accuracy within 1 centimeter of the opening gap.

h. The RES should allow for the monitoring of the following environmental conditions through its connected sensors:

   (i.) Water leaks (floor) through its connected sensors; and

   (ii.) Indoors airflow through its connected sensors.

i. The RES must be able to communicate with RESM and other networked systems through the secure Ethernet IP-based interface.

j. The RES should provide configurable relay control outputs (discrete signal) to control external equipment or system.

k. The RES should allow for the generation of relay control outputs automatically based on preconfigured triggering conditions (alarm threshold).

l. The RES must be able to activate the deletion of all Black Keys in the onsite CMV in response to the preconfigured automatic action for the intrusion alert.

m. The RES must be able to activate the deletion of all Black Keys in the onsite CMV in response to preconfigured Command from the RESM's user interface.

n. The RES should be able to activate the deletion of the KeyMat in the T1ED through the Web-based control interface, in response to preconfigured automatic action for the intrusion alert.

o. The RES should be able to activate the deletion of the KeyMat in the T1ED through the Web-based control interface, in response to preconfigured command from the RESM's user interface.

p. The RES should allow for the configuration, monitoring and control of onsite networked systems through a Web-based or an Ethernet IP-based Simple Network Management Protocol (SNMP) (v2,v3, and later) interface.

q. The RES should allow for the control of the systems rack's ventilation fan through its relay control output interface (discrete signal, voltage, interruption).

r. The RES must meet the following operational conditions in accordance with the Canadian Interference-Causing Equipment Standard (ICES-003) – Information Technology Equipment (ITE), Class A digital apparatus regulation:

   (i.) The RES must not cause harmful interference; and

   (ii.) The RES must accept any interference received, including interference that may cause undesired operation.

s. The RES must have the product mean time between failures (MTBF) exceeding 300,000 hours. The product MTBF is calculated based on the formula

$$\Sigma \frac{(number\ of\ operating\ units\ \times\ number\ operating\ hours)}{number\ of\ failures}$$

t. The RES must meet the following environmental specifications:

(i.) Mount in a standard 19" wide by 24" deep rack.

(ii.) Not exceed 2 rack units in height.

(iii.) Be operable at full capacity within the following ambient temperature range from -0°C to +50°C.

(iv.) Be operable at full capacity within the following Relative Humidity: range from 20% to 80% (non-condensing).

(v.) Be storable without damage in the following temperature from -40°C to +65°C.

(vi.) Be storable without damage in the following Relative Humidity range from 10% to 90% (non-condensing).

(vii.) Come with the protection for transportation that meet the following shock and vibration requirements:

1. Comply with MIL-STD-810G Method 514.6, Procedure I (General Vibration).

2. Comply with MIL-STD-810G Method 516.6, Procedure I (Functional Shock), IV (Transit Drop) and VI (Bench Handling).

3.1.3 Remote J-Voice Monitoring (RJVM)

This capability will enable the operator at the Central and Parent site to monitor the Link-16 audio (J-Voice) exchange at remote Child sites. The delivered RJVM solution needs to implement, but is not limited to, the following requirements:

1. The RJVM solution must allow the operator at the Central and Parent site to remotely access to the J-Voice channel at more than 16 remote Child sites and communicate with Link-16 assets within range.

2. The RJVM solution must allow the operator at the Central and Parent site to establish the voice communication with the system maintainer at the Child sites through a secure Ethernet IP-based network.

3. The typical RJVM solution must be constituted of one or several Radio-Ethernet Converter (REC) unit(s) and an active Remote Radio-Ethernet Manager (RREM) that are deployed at separate locations and connected together through a secure Ethernet IP-based network.

4. RREM Specifications

a. The RREM must be a self-contained system that is equipped with the following communication interfaces:

(i.) USB interface for the headset and device configuration; and

(ii.) Ethernet IP-based network interface.

b. The RREM must include a compatible USB headset or IP-based audio console which will be connected to RREM for the voice communication.

c. The RREM must provide a Web-based GUI for the configuration and monitoring.

d. The RREM must enable the operator at Parent / Central site to monitor and communicate through the J-Voice channel of any number of Child sites.

e. The RREM should allow the operator to configure the interoperable nets by grouping the system endpoints by net. The system endpoints within a same net can communicate between them.

f. The RREM must allow the operator to remotely access the configuration and troubleshooting of RECs at Child sites through a secure Ethernet IP-based network.

g. The RREM must allow the operator to select one of the following voice compression modes (Vocoders) for J-Voice channel at each Child site:

    (i.) Global System for Mobile Communication (GSM): 13 kbps;

    (ii.) Adaptive Differential Pulse Code Modulation (ADPCM): 16, 24, 32 kbps; and

    (iii.) Pulse Code Modulation: 64 kbps.

h. The RREM must allow for the operator to remotely adjust the audio input and output level of the REC at each Child site.

i. The RREM must meet the following environmental specifications:

    (i.) Be mountable in a standard 19" wide by 24" deep rack.

    (ii.) Not exceed 1 rack unit in height.

    (iii.) Be operable at full capacity within the ambient temperature range from 0°C to +50°C.

    (iv.) Be operable at full capacity within the Relative Humidity range from 20% to 80% (non-condensing).

    (v.) Tolerate without damage the following storage ambient temperature range from -35°C to +65°C.

    (vi.) Tolerate without damage the following storage Relative Humidity range from 10% to 90% (non-condensing).

    (vii.) Be delivered with transportation solution that meets the following shock and vibration requirements:

        (1.) Comply with MIL-STD-810G Method 514.6, Procedure I (General Vibration).

        (2.) Comply with MIL-STD-810G Method 516.6, Procedure I (Functional Shock), IV (Transit Drop) and VI (Bench Handling).

    (viii.) Accept a universal 100-240VAC, 50/60Hz input.

5. REC Specifications

a. The REC must be a self-contained system that is equipped with the following communication interfaces:

(i.) Radio or 4-Wire Audio Interface;

(ii.) USB interface (2.0 or newer version) for system configuration; and

(iii.) Ethernet IP based network interface.

b. The REC must include the 4-Wire audio cable which allows for connecting the system's radio or audio port with the CMV's J-Voice connector type.

c. The REC should include a compatible radio headset or console which can be connected to the system and allow site maintainer to communicate with the operator at the Parent and Central site.

d. The REC must enable the system configuration and monitoring through the Web-based interface.

e. The REC must allow for the configuration of remote manager's (RREM) IP address and port.

f. The REC must be able to connect to the configured RREM automatically at the system start-up, through a secure Ethernet IP-based network.

g. The REC must convert the audio input to the voice compressed data package and forward it to the pre-configured destination IP address and port, through a secure Ethernet IP-based network.

h. The REC must convert the voice compressed data package received on its network interface, to the Push-To-Talk (PTT) and audio signal and send it out on the system's Radio interface.

i. The REC must support the following voice compression modes (Vocoders):

(i.) GSM (13 kbps);

(ii.) ADPCM (16, 24, 32 kbps); and

(iii.) PCM (64 kbps).

j. The REC must allow for the audio input and output level adjustment through the Web-based configuration and monitoring interface.

k. The REC's Radio or 4-Wire Audio interface must have the frequency response of ±2dB for the audio input in the frequency range from 10Hz to 3600Hz.

l. The REC's Radio or 4-Wire Audio interface must have the frequency response of ±2dB for the audio output in the frequency range from 10Hz to 3350Hz.

m. The REC must have light-emitting diodes (LEDs) indicating the status of following operational parameters on the front panel:

(i.) Power;

(ii.) Link Active;

(iii.) Channel Active; and

(iv.) Audio Level.

n. The REC must meet the following environmental specifications:

(i.) Be mountable in a standard 19" wide by 24" deep rack.

(ii.) Not exceed 1 rack unit in height.

(iii.) Be operable at full capacity within the ambient temperature range from 0°C to +50°C.

(iv.) Be operable at full capacity within the Relative Humidity range from 20% to 80% (non-condensing).

(v.) Tolerate without damage the following storage ambient temperature range from -35°C to +65°C.

(vi.) Tolerate without damage the following storage Relative Humidity range from 10% to 90% (non-condensing).

(vii.) Be delivered with transportation solution that meets the following shock and vibration requirements:
   (1.) Comply with MIL-STD-810G Method 514.6, Procedure I (General Vibration).
   (2.) Comply with MIL-STD-810G Method 516.6, Procedure I (Functional Shock), IV (Transit Drop) and VI (Bench Handling).

(viii.) Accept a universal 100-240VAC, 50/60Hz input.

3.1.4   Intelligent Power Management (IPM)

This functionality will enable the operator at the Parent and Central site to remotely monitor and control the power distribution within the Link-16 systems racks at the Child sites. The IPM system (IPMS) will also allow the Link-16 systems to continue to operate through a short period of main power outage. The IPMS needs to meet the following requirements:

1. The IPMS must have a graphical display interface which allows the systems maintainer to view detailed information, monitor efficiency and customize all required settings at the push of a button.

2. The IPMS must include a Power-Pass Distribution Module (PPDM) which allows a step-down voltage to 120V to accommodate a variety of loads.

3. The PPDM must also provide a maintenance bypass, which allows the system maintainer to service or replace the control module without powering down the load.

4. The IPMS must be capable to operate with the backup batteries to provide the uninterruptible power supply capability.

5. The IPMS must switch to battery power automatically, without interruption, when a power source is disconnected.

6. The IPMS must include the advanced battery management technology with following functionalities:

   a. Optimizing the charging method to extend battery service life; and

   b. Monitoring battery health to provide advance warning for battery replacement.

7. The IPMS must support a power draw of 3000W for at least 15 minutes, when disconnected from a power source and running on battery power, at an ambient temperature of 25°C.

8. The IPMS must allow for adding the extended battery modules to increase the uninterruptible power supply capacity.

9. The IPMS must allow for the replacement internal batteries and extended battery modules without shutting down equipment connected to the system (hot-swap).

10. The IPMS must provide the following electrical output characteristics:

    a. The IPMS must have, but not limited to, following receptacle for output:

    (i.)   Quantity 6 receptacle type 5-20R;

    (ii.)   Quantity 1 receptacle type L6-30R; and

    (iii.)   Quantity 1 receptacle type L14-30R.

    b. The IPMS must provide universal 120/240VAC, 50/60Hz output voltage.

    c. The IPMS must have the output volt-ampere (VA) rating of at least 3000 VA.

    d. The IPMS must support a power output of at least 3000W.

11. The IPMS must accept the following electrical input characteristics:

    a. The IPMS must have a L6-30P input connector.

    b. The IPMS must accept an input nominal voltage 240VAC, 50/60Hz.

    c. The IPMS must support an input frequency range from 40Hz to 60Hz.

12. The IPMS must have, but not be limited to, the following communication interfaces:

    a. Ethernet IP-based;

    b. USB (2.0 or newer version); and

    c. Serial RS-232.

13. The IPMS must provide a Web-based or an Ethernet IP-based SNMP (v2, v3 or later) interface for the monitoring, management and control of the system operation and power distribution through the network.

14. The IPMS must be equipped with, but not limited to, 1 mini-terminal block for the remote control of system operational states (ON/OFF) from a connected environmental monitoring system.

15. The IPMS must have, but not limited to, 1 mini-terminal block for remote power off the system. A remote contact can be linked to this mini-terminal block to disconnect all the equipment connected to the system. Restarting the system requires manual intervention.

16. The IPMS must have, but not limited to, 1 mini-terminal block for output relay which can be linked to the environmental monitoring system to notify the outage of input power.

17. The IPMS must allow the operator to configure the input and output of mini-terminal blocks to support the common environmental alarm standards.

18. The IPMS must have the Uninterruptible Power Supply (UPS) altitude de-rating factor of 1 for an altitude up to 500 meters at 25°C ambient.

19. The IPMS must have the heat dissipation lower than 795 BTU per hour when operating on the external power source, and lower 1625 BTU per hour when operating on the internal batteries.

20. The IPMS must have an operating noise level less than 45 dB at 1 meter away from the system.

21. The IPMS must be operable at maximum capacity within the ambient temperature range from 0°C to +50°C.

22. The IPMS must be operable at maximum capacity within the Relative Humidity range from 20% to 80% (non-condensing).

23. The IPMS must be storable without damage in ambient temperature range from -20°C to +65°C.

24. The IPMS must be storable without damage in the Relative Humidity range from 10% to 90% (non-condensing).

25. The IPMS must mount in a standard 19" wide by 24" deep rack.

26. The IPMS must not exceed 6 rack units in height.

27. The IPMS must place any fitted air intake and exhaust ports at either the front or rear panels only, to allowing the stacking of other rack equipment above and below.

28. The IPMS must be compliant with following standards for electromagnetic compatibility and interference for ITE:

    a. CISPR22 Class A; and

    b. FCC part 15 Class A.

29 The IPMS must meet the following shock and vibration requirements:

    a. Comply with MIL-STD-810G Method 514.6, Procedure I (General Vibration).

    b. Comply with MIL-STD-810G Method 516.6, Procedure I (Functional Shock), IV (Transit Drop) and VI (Bench Handling).

3.1.5   Network Time Server (NTS)

This functionality will provide the accurate GPS-based time reference for equipment and time sensitive systems on the local area network (LAN). The NTS needs to implement, but is not limited to, the following requirements:

1. The NTS must be a self-contained system with the following communication interfaces:
   a. RJ45 10/100 Ethernet;
   b. DB-9 RS-232/422; and
   c. USB (2.0 or newer version).
2. The NTS must allow for the configuration of the time zone offsets and daylight saving time (DST).
3. The NTS must provide a Web-based or an Ethernet IP-based Simple Network Management Protocol (SNMP) (v3 or later) interface for the configuration, monitoring and control of systems and operational parameters.

4. The NTS should implement the auto-discovery function which allows the remote graphical user interface (GUI) application to establish a connection with the system for the configuration, monitoring and control of systems and operational parameters.

5. The NTS must allow for the synchronization of system clock National Marine Electronics Association (NMEA) 0183 compatible Global Positioning System (GPS) through the RS-232/422 interface.

6. The NTS must allow for the reception of the standard 5V at 20mA pulse per second (1-PPS) which is used as the input synchronization signal.

7. The NTS must allow for the synchronization of system clock to the Have Quick and 1PPS clock master through the serial interface.

8. The NTS must be equipped with an internal high-stability quartz or equivalent crystal oscillator which maintains time during loss of external time source within ±1µs per day.

9. The NTS must act as the time server, supporting NTPv3 and later, which allows networked equipment to synchronize with its internal clock through the system's Ethernet interface.

10. The NTS must provide at least 2 Have Quick time code outputs.

11. The NTS must provide the configurable IRIG A, IRIG B, IRIG E and IRIG G time code outputs.

12. The NTS must provide configurable 5V and 10V into 50Ω synchronization signal (pulse) at a frequency of 1Hz through its 1-PPS outputs.

13. The NTS must allow for visualization of system time through its digital display interface.

14. The NTS must comply with following environmental specifications:
    a. Accept the direct current input in the range of 12 to 48 VDC.
    b. Accept the universal 120/240 VAC, 50/60 Hz input.
    c. Mount in a standard 19" wide rack.
    d. Mount within a standard 24" deep rack.
    e. Not exceed 1 rack unit in height.
    f. Be operable at maximum capacity within the following temperature and humidity range:
        (i.) The ambient temperature from 0 to +50 degrees Celsius; and
        (ii.) Humidity range of from 20% to 80% (non-condensing) range.
    g. Tolerate, without damage, the following storage temperature and humidity range:
        (i.) Ambient Temperature: From -35 to +65 degrees Celsius; and
        (ii.) Relative Humidity range from 10% to 90% (non-condensing).

15. The NTS must be delivered with transportation solution that meets the following shock and vibration requirements:
    a. Comply with MIL-STD-810G Method 514.6, Procedure I (General Vibration).
    b. Comply with MIL-STD-810G Method 516.6, Procedure I (Functional Shock), IV (Transit Drop) and VI (Bench Handling).

3.1.6   Remote Computer Control (RCC)

The RCC functionality will provide the operator at the Central and Parent site with remote BIOS-level control of laptop, computer-based systems at the Child sites. The RCC solution needs to meet the following requirements:

1. The RCC solution must allow the Central and Parent site's operator to remotely access and operate laptops and computer-based systems at more than 16 Child sites through the secure Ethernet IP-based network.

2. The RCC solution must allow the operator to remotely take the total control of all connected laptops and computer-based systems at a Child site through the secure Ethernet IP-based network.

3. The RCC solution must allow the operator to interact with remote laptop, computer-based system at a Child site by using the following local peripheral devices:

   a. 1080p HD or higher Monitor;

   b. USB Input devices (keyboard and mouse);

   c. Audio Input device (microphone);

   d. Digital Audio device (speaker); and

   e. Virtual Media (smart-card, external DVD, USB drives, etc.).

4. The RCC must provide the extended display on multiple compatible monitors.

5. The RCC should allow the operator to remotely power ON/OFF the computer-based system at a Child site through the secure Ethernet IP-based network.

6. The RCC solution must be constituted of one or several KVM over IP Switch (KIPX) devices and an active Remote Computer Control Station (RCCS) that are deployed at separate locations and connected together through a secured Ethernet IP based network.

7. RCCS Specifications

   a. The RCCS must be a self-contained device that can be installed on a office desk and can be mounted in a standard 19" rack.

   b. The RCCS must be equipped with at least one per the following video port types:

      (i.) HDMI; and

      (ii.) DP.

   c. The RCCS must be compatible with one of the following types of display monitor:

      (i.) HDMI; and

      (ii.) DisplayPort video.

   d. The RCCS must include a 1 Gigabit Ethernet interface for the network communication.

   e. The RCCS must include at least 4 USB-A 3.1 Gen 1 (or latest version) ports for peripheral devices.

   f. The RCCS must include at least 2 USB 3.1 Gen 2 (or latest version) ports for virtual media.

   g. The RCCS must provide the standard PC-type jacks for microphone input and audio output.

   h. The RCCS should allow for extending the display on more than one monitor.

i.　The RCCS must provide a GUI for system operation.

j.　The RCCS must prevent unauthorized access through an authentication and authorization process.

k.　The RCCS must allow the operator to perform basic settings, including but not limited to user account, display and networking parameters, on the device.

l.　The RCCS must allow the operator to establish and maintain the connection with more than 16 KIPXs through a secure Ethernet IP-based network.

m.　The RCCS must allow the operator to visualize and organize the list of connected KIPXs by renaming and regrouping KIPX.

n.　The RCCS must allow the operator to drop the connection with a KIPX by removing it from the list.

o.　The RCCS must allow the operator to access and modify the configuration of connected KIPXs.

p.　The RCCS must allow the operator to visualize the list of occupied ports on each KIPX which are connected to remote laptops and computer-based systems.

q.　The RCCS must allow the operator to select an occupied port of a KIPX and open a RCC session with the laptop or computer-based system connected to that port.

r.　The RCCS must allow the operator to manage the streaming video performance of an open RCC session.

s.　The RCCS must allow the operator to connect and disconnect the virtual media to an open RCC session.

t.　The RCCS must allow the operator to access and control the remote laptops, computer-based system at the most basic level (BIOS) through an open RCC session.

u.　The RCCS must allow the operator to control of the remote laptop, computer-based system through an open RCC session. The remote control includes but is not limited to the following operations:

　(i.)　Software installation;

　(ii.)　Service and Application configuration and execution;

　(iii.)　System booting by CD/DVD/USB; and

　(iv.)　Files transfer and data backup.

v.　The RCCS should allow the operator to open a RCC session with an occupied port of a KPIX and turn on the laptop or computer-based system connected to that port.

w.　The RCCS must:

　(i.)　Include a 100-240VAC, 50/60Hz power adapter.

　(ii.)　Be operable at full capacity within the following the temperature and humidity range:

　　(1.)　Ambient temperature: From 0°C to +40°C.

　　(2.)　Relative humidity: From 20% to 80% (non-condensing)

(iii.) Tolerate without damage the following storage temperature and humidity range:

(1.) Ambient temperature: From -20°C to +60°C.

(2.) Relative humidity: From 10% to 90% (non-condensing)

(iv.) Come with the protection for transportation that meet the following shock and vibration requirements:
(1.) Comply with MIL-STD-810G Method 514.6, Procedure I (General Vibration).
(2.) Comply with MIL-STD-810G Method 516.6, Procedure I (Functional Shock), IV (Transit Drop) and VI (Bench Handling).

8. <u>KIPX Specifications</u>

a. The KIPX must be a self-contained system that mounts in a standard 19" rack.

b. The KIPX must provide the remote computer interfaces (RCI) for connecting 8 computer-based systems and laptops simultaneously.

c. The KIPX must provide the following data interfaces for each RCI:

(i.) USB HID for keyboard/mouse;

(ii.) USB interface (3.0 or latest version) for Virtual Media; and

(iii.) HDMI interface for video.

d. The KIPX must support following video resolution standards on each RCI:

(i.) VGA;

(ii.) DVI;

(iii.) HDMI; and

(iv.) DP Video.

e. The KIPX must include dual Gigabit Ethernet interfaces with failover mechanism for redundancy.

f. The KIPX must include dual-stack networking IPv4 and IPv6 on its Gigabit Ethernet interfaces.

g. The KIPX must provide local access ports for USB-keyboard, USB-mouse, DVI-D/HDMI display and USB-Virtual Media which are used for systems maintenance at the rack.

h. The KIPX must provide a GUI for system operation.

i. The KIPX must provide a Web-based interface for remote configuration and monitoring.

j. The KIPX must compatible with and connect to RCCS through an Ethernet IP-based network.

k. The KIPX must implement a user authentication and authorization mechanism to control the access to system and privilege levels.

l. The KIPX must implement a user access authentication and authorization mechanism for each remote computer-based system interface.

m. The KIPX must encrypt all data transmitted, including video and virtual media, over the Ethernet IP-based network.

n. The KIPX should be compliant to the following Canadian government security requirements:

   (i.) FIPS 140-2 certified cryptographic module;

   (ii.) Smart-card/Common Access Card (CAC) authentication; and

   (iii.) Two factor RSA SecurID authentication.

o. The KIPX must allow the operator with appropriate privilege, to enable/disable the data encryption on the Ethernet IP-based network connection.

p. The KIPX should allow for remote power control (equivalent to an action on a power button) for each computer-based system interface connected to it.

q. The KIPX must provide a Web-based or an Ethernet IP-based SNMP (v2, v3 or later) interface for the management, configuration and monitoring.

r. The KIPX must have LED indicators for network activity and remote user status.

s. The KIPX must meet the following environmental specifications:

   (i.) Accept a 100-240VAC, 50/60Hz input.

   (ii.) Be mountable within a standard 19" wide by 24" deep rack.

   (iii.) Not exceed 1 rack unit in height.

   (iv.) Be operable at full capacity within the following ambient temperature range from 0°C to +45°C.

   (v.) Be operable at full capacity within the following Relative Humidity from 20% to 80% (non-condensing).

   (vi.) Tolerate without damage the storage ambient temperature range from -20°C to +60°C.

   (vii.) Tolerate without damage the storage Relative Humidity range from 10% to 90% (non-condensing).

   (viii.) Have any fitted air intake and exhaust ports located at either the front or rear panels only, to allowing the stacking of other rack equipment above and below.

   (ix.) Come with the protection for transportation that meets the following shock and vibration requirements:
   (1.) Comply with MIL-STD-810G Method 514.6, Procedure I (General Vibration).
   (2.) Comply with MIL-STD-810G Method 516.6, Procedure I (Functional Shock), IV (Transit Drop) and VI (Bench Handling).

3.1.7 Secure Communication Gateway (SCG) – GFE

The SCG provides the data encryption, IP packets filtering and routing services for the wide area network (WAN) communication interface. This functionality will allow the Fixed TDL GEP to securely exchange tactical information across the TDL WAN and Commercial/Public Internet (but

not simultaneously). The SCG solution is GFE and mainly constituted of the following systems and equipment:

1. The SCG solution will include a NSA certified T1ED which is recognized and widely used within Defense network.

2. The SCG solution will include a Cisco ISR 4331 (or equivalent) as the WAN entry router (WER) (as known as Black Router).

3. The SCG solution will include a Cisco ISR 4331 (or equivalent) as the local traffic router (LTR) (as known as Red Router).

4. SCG solution will also include data and network cables, communication equipment and ancillaries that are required for the operation.

3.1.8   Remote Site Configuration Service (RSCS)

The RSCS will allow the remote user with appropriate credential to access to the configuration and monitoring of any Web/SNMP enabled system inside the Fixed TDL Child GEP, through a centralized web service interface. The solution helps to eliminate the hassle of searching and entering a URL and credential for each system by implementing the following requirements:

1. The RSCS must be a secure Web service using SSL/TLS and compatible with Microsoft Windows 10 and the latest release of Microsoft Windows.

2. The RSCS must provide a web-based GUI with authentication and authorization capability.

3. The RSCS must be configurable to allow the operator to access the systems having a Web-based or an Ethernet IP-based SNMP (v2, v3 or later) interface which is referred by the term 'web-system' in the context of RSCS requirements, with a single button, navigation tab or hyperlink on the website's page at any time.

4. The RSCS must create and maintain a button, navigation tab or hyperlink on the website's page for each added-in web-system.

5. The RSCS must remove the corresponding button, navigation tab or hyperlink when a web-system is removed from the website's page.

6. The RSCS must incorporate the web-system's page into the website's main page and display it as a sub-module.

7. The RSCS should allow for the choice of viewing selected and all sub-modules on the same page simultaneously.

8. The RSCS should allow for the choice of viewing a sub-module on a new window.

9. The RSCS must provide a functionality allowing the remote operator to perform the configuration on the website, including but not limited to, the following:

   a. Setting networking and security parameters of the website;

   b. Adding, editing and removing a web-system;

   c. Setting the automatic refresh rate of dynamic/transitional data of the website and of each web-system;

d. Changing the website's page display layout; and

e. Changing the website's page display view (look-and-feel).

10. The RSCS must allow for the operator to enable and disable the connection with a web-system. The existing web-system will still be displayed on the website's main page.

11. The RSCS must allow for visualization of the connectivity status with web-system all the time.

12. The RSCS must safeguard and apply the latest configuration and settings change through the system reboot and service restart.

13. The RSCS must connect to the added systems automatically at the start-up of the service, and continuously for the whole service running time.

14. The RSCS should allow the operator to access the web-system's configuration, monitoring and control through the corresponding sub-module's tabs.

3.1.9 Link-16 Extension (L16E) – GFE

The L16E solution will allow the operator at the Central and Parent TDL GEP site to control, monitor and operate the remote Link-16 terminal at Child TDL GEP sites that may be very dispersed, through an Ethernet IP-based network. The L16E capability will enable the expansion of Link-16 network to the most remote and austere location in support of the training and domestic operational requirements. The L16E solution is GFE and mainly constituted of the following systems and equipment:

1. The L16E will include a MIDS JTRS with following ancillaries and supporting equipment:

   f. The Cooling Tray with power adapter for use with universal power source 120/240VAC, 50/60Hz;

   g. The Power Supply with integrated Converter that is compatible with universal power source 120/240VAC, 50/60Hz;

   h. RF cables and RF ports adapters as required;

   i. Link-16 Notch Filter; and

   j. All required interface cables and ancillaries.

2. The L16E will include an L-Band high gain antenna.

3. The L16E will include the Host Platform Conversion (HPC) system with integrated Ethernet/MIL-STD 1553 Interface Adapter.

4. The L16E will include the MIDS JTRS Control Panel with the Ethernet IP-based tactical and control host interfaces integrated.

5. The L16E will include all materiel and adapters required for the installation of MIDS JTRS, Control Panel, Fan Tray, Power Supply and HPC system.

3.2 Fixed TDL GEP Requirements

3.2.1 Fixed Child TDL GEP

1. Fixed Child TDL GEP must implement the following functionalities:

   a. RKL functionality in accordance with the RCM capability requirements.

b. The RES functionality in accordance with the REM capability requirements.

c. The REC functionality in accordance with the RJVM capability requirements.

d. The KIPX functionality in accordance with the RCC capability requirements.

e. The NTS capability requirements.

f. The IPM capability requirements.

2. Fixed Child TDL GEP must integrate the following government furnished capabilities:

a. SCG.

b. L16E.

c. Advanced Military GPS.

3. Fixed Child TDL GEP should implement the RSCS capability requirements.

4. Fixed Child TDL GEP should include a suitable rack-mounted workstation or laptop for the systems diagnostic, configuration and monitoring.

5. Fixed Child TDL GEP must have all systems and support equipment, except the L16E's equipment, installed within a government furnished standard 19" wide by 24" deep per 20 Unit high rack.

6. Fixed Child TDL GEP must have the L16E's equipment installed within a dedicated government furnished standard 19" wide by 24" deep per 10 Unit high rack.

7. Fixed Child TDL GEP must include materiel, electric and data cables, networking equipment and ancillaries that are required for the integration and operation of implementing capabilities and functionalities.

3.2.2 Fixed Parent TDL GEP

1. Fixed Parent TDL GEP must implement the following functionalities:

a. The RKLM functionality in accordance with the RCM capability requirements.

b. The RESM functionality in accordance with the REM capability requirements.

c. The RREM functionality in accordance with the RJVM capability requirements.

d. The RCCS functionality in accordance with the RCC capability requirements.

2. Fixed Parent TDL GEP must include and integrate the following systems and capabilities:

a. The Fixed Child TDL GEP solution.

b. A suitable Sites Monitoring workstation (SMWS) for the operation of RKLM and RESM.

c. The government furnished Sites Control Workstation (SCWS) which is dedicated to the following operations:

(i.) L16E management by using a government furnished Data Links Control and Forwarding software suite.

(ii.) Remote J-Voice management through RREM.

(iii.) Remote systems configuration and monitoring through RSCS.

d. A suitable 4-port KVM switch to allow the operator to interact and control different workstations by using the same set of Canadian multilingual (ANCOR) keyboard, mouse, and monitor.

e. A set of keyboard, mouse and at least 42" 4K definition curved monitor for use with RCCS, SMWS and SCWS.

3. Fixed Parent TDL GEP must include materiel, electric and data, networking equipment and ancillaries that are required for the integration and operation of implementing capabilities and functionalities.

3.2.3 Fixed Central TDL GEP

1. The Fixed Central TDL GEP solution must include and integrate the following functionalities and capabilities:

   a. The Fixed Parent TDL GEP solution.

   b. The government furnished Recognized Air Picture Workstation (RAPWS) which is dedicated to the operation of RAP management by using government furnished Multiple Data Link Processing and Forwarding software.

   c. The RAPWS with the keyboard, mouse and an at least 42" 4K definition curved monitor included in the Fixed Parent TDL GEP configuration.

   d. The government furnished Serial over IP converter for use with the secure telephony equipment.

   e. The government furnished SCIP compliant telephone to enable the secured point-to-point communication.

2. Fixed Central TDL GEP must include materiel, electric and data cables, networking equipment and ancillaries that are required for the integration and operation of implementing capabilities and functionalities.

3.3 Readiness of the Delivered Subsystems and Components

All components of the proposed Fixed TDL GEP solution should be proven, integrated and ready to achieve operational state with minimal Engineering or Developmental effort.

APPENDIX A2

CONTRACT DATA REQUIREMENT LIST

FIXED TACTICAL DATA LINK GROUND ENTRY POINT

W8475-235518/001

Contract Data Requirements List (CDRL) Table Definitions

The following section defines each column found on the CDRL forms:

CDRL NUMBER

The Contract Data Requirements List (CDRL) number, consisting of a sequential three-digit number and prefixed with an abbreviation code, to uniquely identify the CDRL. The abbreviation codes used for the prefix are based on subject areas and are as follows:

PM   Project Management

PP   Project Plan

SE   Systems Engineering

TD   Test and Delivery

The CDRL number is further prefixed with an abbreviation code of where the contract deliverable originates from. The abbreviation codes are as follows:

ACQ   Acquisition Statement of Work (SOW)

ILS   Integrated Logistics Support

An example CDRL number would be as follows: ACQ-PM-001

TITLE

The title of the contract deliverable being referred to.

REFERENCE

The specific paragraph number of the Contract Demand, Statement of Work, Request for Proposal, Specification, or other applicable document to assist in identifying the originating location of the contract deliverable.

APPROVAL CODE (APP CODE)

Indicates items of critical data requiring specific advanced written approval, such as test plans, identified by placing an "A" in this field. These data may require submission of a preliminary draft prior to publication of a final document. When a preliminary draft is required, the "Remarks" section must show the length of time for Government approval/disapproval and when final is to be delivered. The "Remarks" section also indicates the extent of the approval requirements, e.g., approval of technical content and/or format.

If advance approval is not required, this block is marked as "N/A".

FREQUENCY

This block indicates the frequency of the delivered data. The following frequency codes are used:

ANNLY	Annually
ASGEN	As generated
ASREQ	As required
BI-MO	Every 2 months
BI-WK	Every2 weeks
DAILY	Daily
MNTHY	Monthly

ONE/R	One time with revisions
TWO/R	Two times with revisions
THREE/R	Three times with revisions
OTIME	One time
QRTLY	Quarterly
R/ASR	Revisions as required
SEMIA	Semi-annually
WKLY	Weekly

AS OF DATE

For contract deliverables that are submitted only once, the "as of" date or associated constraint is indicated. The following abbreviations are used for the constraints:

ASGEN	As generated
ASREQ	As required
DACA	Days after contract award
MACA	Months after contract award
KOM	Kick-off meeting
DAKOM	Days after kick-off meeting
DARC	Days after receipt of comments
EOM	End of month
EOQ	End of quarter

If the as-of date is not applicable, leave this block blank.

SUBMISSION DATE

The initial submission date or associated constraint for the 1st submission of the contract deliverable is indicated in this block using typical abbreviations as listed above under "As of Date".

DATE OF SUBSEQUENT SUBMISSION

The date(s) of subsequent submission(s) or associated constraint(s) of the contract deliverable is indicated in this block. The abbreviations used for the constraints are as listed above under "As of Date". If no subsequent submission or associated are not involved, this block is left blank.

MEDIA & QUANTITY

Indicates the total number of copies (hard copies and soft copies separately) required for both the original submission and for the final submission. If the project has been identified as a Green Procurement project and as such all deliverables will be communicated through electronic means.

REMARKS

Provides additional or clarifying information.

CDRL No.	TITLE	SOW REF.	APP CODE	FREQ.	AS OF DATE	SUBMISSION DATE	DATE OF SUBS. SUBMISSION	MEDIA & QTY	REMARKS
ACQ-PM-001	Meeting Minutes	2.2.3	A	ASREQ /R	ASREQ	ASREQ	Project Review Meeting	Electronic Transmission; e.g., e-mail or drop box	Meeting minutes must be submitted no later than 10 working days after each meeting
ACQ-PM-002	Project Close-out Report	2.2.3		ONE/R		ASGEN	PCO Meeting	Electronic Transmission; e.g., e-mail or drop box	Must be submitted for review no later than 10 working days after meeting.
ACQ-SE-001	PDR Report	2.3.1	A	ONCE/ R		ASGEN	PDR	Electronic Transmission; e.g., e-mail	Must be submitted for review no later than 5 working days after applicable meeting.
ACQ-SE-002	System Design Specification (SDS) Document	2.3.2	A	ONE/R		ASGEN	CDR	Electronic Transmission; e.g., e-mail or drop box	Must be submitted for review no later than 10 working days after applicable meeting.
ACQ-SE-003	CDR Report	2.3.2	A	ONCE/ R		ASGEN	CDR	Electronic Transmission; e.g., e-mail	Must be submitted for review no later than 5 working days after applicable meeting.

CDRL No.	TITLE	SOW REF.	APP CODE	FREQ.	AS OF DATE	SUBMISSION DATE	DATE OF SUBS. SUBMISSION	MEDIA & QTY	REMARKS
ACQ-TD-001	Factory Acceptance Test (FAT) Plan	2.3.3		ASGEN /R		ASGEN	FAT	Electronic Transmission; e.g., e-mail	Must be submitted for review no later than 10 working days before applicable meeting.
ACQ-TD-002	Factory Acceptance Test (FAT) Report	2.3.3	A	ASGEN /R		ASGEN		Electronic Transmission; e.g., e-mail	Must be submitted for review no later than 10 working days after the event.
ACQ-TD-003	System Acceptance Test (SAT) Plan	2.3.4	A	ONE/R		ASGEN	SAT	Electronic Transmission; e.g., e-mail or drop box	Must be submitted for review and approval no later than 10 working days before applicable meeting.
ACQ-TD-004	System Acceptance Test (SAT) Report	2.3.4	A	ONE/R		ASGEN		Electronic Transmission; e.g., e-mail or drop box	Must be submitted for review no later than 10 working days after the event.
ACQ-ILS-001	Training Package	2.4.2	A	ASGEN /R		ASGEN		Electronic Transmission; e.g., e-mail or drop box	Must be submitted for review no later than 20 working days before the event.

APPENDIX A3

DATA ITEM DESCRIPTION

FIXED TACTICAL DATA LINK GROUND ENTRY POINT

W8475-235518/001

Data Item Description (DID)

Data Item Description (DID) Form Definitions

The following section defines the various blocks of information found on the Data Item Description (DID) forms:

Block Number	Name	Definition
1	TITLE	The title of the data item for the DID
2	IDENTIFICATION NUMBER	The Data Item Description (DID) number is the same as the CDRL number
3	DESCRIPTION	Provides a general description of the data content requirements.
4	APPROVAL DATE	Indicates the date of the originator's approval of the DID.
5	OFFICE OF PRIMARY INTEREST (OPI)	The office of primary interest for the review, acceptance and/or approval of the data item
6	OFFICE OF COLLATERAL INTEREST	The office of collateral interest for the review, acceptance and/or approval of the data item.
7	APPLICATION / INTERRELATIONSHIPS	Provides the application details and Inter Relationship of the data item to other DIDs or documents.
8	ORIGINATOR	Indicates the originator's office responsible for the DID.
9	REFERENCES	Lists the references for of the data item.
10	PREPARATION INSTRUCTIONS	Provides the preparation instructions, including format and content requirements for the data.

DID ACQ-PM-001: Meeting Minutes

DATA ITEM DESCRIPTION		
1. TITLE Meeting Minutes	**2. IDENTIFICATION NUMBER** ACQ-PM-001	
3. DESCRIPTION The Meeting Minutes must record significant discussion, actions, decisions, and all pertinent information necessary to provide a complete and accurate record of the proceedings.		
4. APPROVAL DATE No later than 5 working days after each meeting.	**5. OFFICE OF PRIMARY INTEREST** PMO TIC3 AIR	**6. OFFICE of COLLATERAL INTEREST** N/A
7. APPLICATION/INTERRELATIONSHIP Annex A – Statement of Work, section 2.2.3. *Report*		
8. ORIGINATOR PMO TIC3 AIR, TDL	**9. APPLICABLE FORMS** N/A	
10. PREPARATION INSTRUCTIONS **10.1 Format** 1. The Meeting Minutes must be prepared in the Supplier's format. The format of the first report submitted must be subject to approval by the Project Authority, and once approved, must become the standard for future reports. Minutes and associated meeting deliverables are not final versions until formally accepted by the Project Authority. **10.2 Content** 1. The minutes must include the following information: a. A copy of the approved agenda; b. A list of all attendees detailing appointment and title; c. A record of discussion of all items tabled and action taken; d. Specific identification of action items arising from discussions, including the name and appointment of each person required to take action on outstanding items and a scheduled time for response; e. The proposed date, time and location of any follow-up meeting; f. Signature blocks for both Supplier and Government responsible representatives; g. Copies of all data and information tabled at the meeting appended to the minutes; and h. The Meeting Minutes must include a disclaimer that the minutes are a record of discussions only and do not constitute approval for contractual changes. **10.3 Additional Information** The minutes must include any general information that aids in understanding and define any terms and acronyms used.		

DID ACQ-PM-002: Project Close-Out Report

DATA ITEM DESCRIPTION		
1. TITLE Project Close-Out (PCO) Report		**2. IDENTIFICATION NUMBER** ACQ-PM-002
3. DESCRIPTION The purpose of this report is to provide the Project Authority with the overall status of the delivered systems, outstanding issues and the recommendation to resolve each observation made. The PCO Report enable the Technical Authority to assess the required service and support for delivered systems and subsystems.		
4. APPROVAL DATE At least 10 working days	**5. OFFICE OF PRIMARY INTEREST** PMO TIC3 AIR	**6. OFFICE of COLLATERAL INTEREST** N/A
7. APPLICATION/INTERRELATIONSHIP Annex A – Statement of Work, section 2.2.3. *Report*		
8. ORIGINATOR PMO TIC3 AIR, TDL	**9. APPLICABLE FORMS** N/A	
10. PREPARATION INSTRUCTIONS **10.1 Format** 1. The PCO report must be prepared in Supplier's format. **10.2 Content** 1. The PCO report documents all outstanding issues related to the delivered systems and subsystems for all variants of Fixed TDL GEP solution in accordance with the SPS documentation. 2. The Report includes recommended deviation if any, and/or trade-off, and/or risk resolution approach that should be done to support the Fixed TDL GEP operation. **10.3 Additional Information** The report must include any general information that aids in understanding and define any terms and acronyms used in the report.		

DID ACQ-SE-001: Preliminary Design Review (PDR) Report

<table>
<tr><td colspan="3" align="center">**DATA ITEM DESCRIPTION**</td></tr>
<tr><td colspan="2">**1. TITLE**
Preliminary Design Review (PDR) Report</td><td>**2. IDENTIFICATION NUMBER**
ACQ-SE-001</td></tr>
<tr><td colspan="3">**3. DESCRIPTION**
The purpose of this report is to provide the Project Authority with the Supplier's response to resolve each observation made before or during the PDR.</td></tr>
<tr><td>**4. APPROVAL DATE**
At least 5 working days</td><td>**5. OFFICE OF PRIMARY INTEREST**
PMO TIC3 AIR</td><td>**6. OFFICE of COLLATERAL INTEREST**
N/A</td></tr>
<tr><td colspan="3">**7. APPLICATION/INTERRELATIONSHIP**
Annex A – Statement of Work, section 2.3.1. *Preliminary Design Review*
Appendix A1 – *Systems Performance Specifications*</td></tr>
<tr><td colspan="2">**8. ORIGINATOR**
PMO TIC3 AIR, TDL</td><td>**9. APPLICABLE FORMS**
N/A</td></tr>
<tr><td colspan="3">**10. PREPARATION INSTRUCTIONS**

10.1 Format

    1. The PDR Report must be prepared in the Supplier's format.

10.2 Content

    1. The report must include, but is not limited to, the following for each observation:

        a. A detailed description of the observation;
        b. A reference to the origin of the observation;
        c. Steps taken to address the observation; and
        d. Steps planned to resolve the observation.

10.3 Additional Information
The report must include any general information that aids in understanding and define any terms and acronyms used.</td></tr>
</table>

DID ACQ-SE-002: Fixed TDL GEP Systems Design Specifications

DATA ITEM DESCRIPTION		
1. TITLE Fixed TDL GEP System Design Specifications (SDS)		**2. IDENTIFICATION NUMBER** ACQ-SE-002
3. DESCRIPTION The purpose of this deliverable is to provide the Project Authority with the Fixed TDL GEP SDS Document.		
4. APPROVAL DATE At least 5 working days	**5. OFFICE OF PRIMARY INTEREST** PMO TIC3 AIR	**6. OFFICE of COLLATERAL INTEREST**
7. APPLICATION/INTERRELATIONSHIP Annex A – Statement of Work, section 2.3.2 *Critical Design Review* Appendix A1 – *Systems Performance Specifications*		
8. ORIGINATOR PMO TIC3 AIR, TDL	**9. APPLICABLE FORMS** N/A	

10. PREPARATION INSTRUCTIONS

10.1 Format
1. The SDS document must be prepared in the Supplier's format.

10.2 Content

1. At a high level the SDS includes description, design and specifications of following Fixed TDL GEP variants:
   a. Fixed Central TDL GEP
   b. Fixed Parent TDL GEP
   c. Fixed Child TDL GEP
2. Furthermore, the SDS must contain, where applicable, the information on the interface and connectivity, including but not limited to the following:
   a. Systems network and communication interface description
   b. Systems network architecture
3. The SDS must describe the total system and map to DND specifications and include following information:
   a. Description of the system;
   b. Performance and design requirements of the system;
   c. Design constraints;
   d. Safety goals for the design;
   e. Reliability and maintainability requirements of the system;
   f. Environmental requirements of the system; and
   g. Use of any GSM in the design.

10.3 Additional Information

The report must include any general information that aids in understanding and define any terms and acronyms used.

DID ACQ-SE-003: Critical Design Review (CDR) Report

DATA ITEM DESCRIPTION		
1. TITLE Critical Design Review (CDR) Report	**2. IDENTIFICATION NUMBER** ACQ-SE-003	
3. DESCRIPTION The purpose of this report is to provide the Project Authority with the Supplier's response to resolve each observation made before or during the CDR.		
4. APPROVAL DATE At least 5 working days	**5. OFFICE OF PRIMARY INTEREST** PMO TIC3 AIR	**6. OFFICE of COLLATERAL INTEREST** N/A
7. APPLICATION/INTERRELATIONSHIP Annex A – Statement of Work, section 2.3.2. *Critical Design Review* Appendix A1 – *Systems Performance Specifications*		
8. ORIGINATOR PMO TIC3 AIR, TDL	**9. APPLICABLE FORMS** N/A	

10. PREPARATION INSTRUCTIONS
 	
10.1 Format
 	
1. The CDR Report must be prepared in the Supplier's format.
 	
10.2 Content
 	
1. The report must include, but is not limited to, the following for each observation:
 	
    a. A detailed description of the observation;
    b. A reference to the origin of the observation;
    c. Steps taken to address the observation; and
    d. Steps planned to resolve the observation.
 	
10.3 Additional Information
 	
The report must include any general information that aids in understanding and define any terms and acronyms used.		

DID ACQ-TD-001: Factory Acceptance Test (FAT) Plan

<table>
<tr><td colspan="3" align="center">DATA ITEM DESCRIPTION</td></tr>
<tr><td colspan="2">1. TITLE
Factory Acceptance Test (FAT) Plan</td><td>2. IDENTIFICATION NUMBER
ACQ-TD-001</td></tr>
<tr><td colspan="3">3. DESCRIPTION
The FAT Plan is prepared based on Supplier test plan for each type of Fixed TDL GEP system or components or sub-systems or integrated system at the factory.</td></tr>
<tr><td>4. APPROVAL DATE
N/A</td><td>5. OFFICE OF PRIMARY INTEREST
PMO TIC3 AIR</td><td>6. OFFICE of COLLATERAL INTEREST
N/A</td></tr>
<tr><td colspan="3">7. APPLICATION/INTERRELATIONSHIP
Annex A – Statement of Work, section 2.3.3. <i>Factory Acceptance Test</i></td></tr>
<tr><td colspan="2">8. ORIGINATOR
PMO TIC3 AIR, TDL</td><td>9. APPLICABLE FORMS
N/A</td></tr>
<tr><td colspan="3">10. PREPARATION INSTRUCTIONS

10.1 Format

    1. The FAT Test Plan must be prepared in Supplier's format.

10.2 Content

    1. As per Supplier defined test-procedures, the FAT Test Plan will include various test plans as deemed appropriate by the Supplier, of components and sub-systems to be verified.

10.3 Additional Information
The document must include any general information that aids understanding as well as definition of any terms and acronyms used.</td></tr>
</table>

DID ACQ-TD-002: Factory Acceptance Test (FAT) Report

DATA ITEM DESCRIPTION	
1. TITLE Factory Acceptance Test (FAT) Report	**2. IDENTIFICATION NUMBER** ACQ-TD-002

3. DESCRIPTION
As per Supplier defined test-procedures, the FAT Report will include overall system testing results, where the interaction of all components and sub-systems are verified from the antenna to the IP Port. The FAT Report must include Original Equipment Manufacturer (OEM) test reports for the production of the Fixed TDL GEP system.

4. APPROVAL DATE N/A	**5. OFFICE OF PRIMARY INTEREST** PMO TIC3 AIR	**6. OFFICE of COLLATERAL INTEREST** N/A

7. APPLICATION/INTERRELATIONSHIP
Annex A – Statement of Work, section 2.3.3. *Factory Acceptance Test*

8. ORIGINATOR PMO TIC3 AIR, TDL	**9. APPLICABLE FORMS** N/A

10. PREPARATION INSTRUCTIONS
10.1 Format 1. The FAT Report must be prepared in Supplier's format. **10.2 Content** 1. As per Supplier defined test-procedures, the FAT report will include overall test results as deemed appropriate by the Supplier, of components and sub-systems that have been verified as laid out in the FAT test plan. **10.3 Additional Information** The report must include any general information that aids understanding as well as definition of any terms and acronyms used in the report.

DID ACQ-TD-003: Systems Acceptance Test (SAT) Plan

DATA ITEM DESCRIPTION	
1. TITLE System Acceptance Test (SAT) Plan	**2. IDENTIFICATION NUMBER** ACQ-TD-003

3. DESCRIPTION
The SAT Plan must contain the test cases and test procedures necessary to perform formal qualification testing of each Fixed TDL GEP system type and relevant integration test. These tests enable the Project Authority to assess the completion of the Fixed TDL GEP system delivery.

4. APPROVAL DATE At least 10 working days	**5. OFFICE OF PRIMARY INTEREST** PMO TIC3 AIR	**6. OFFICE of COLLATERAL INTEREST** N/A

7. APPLICATION/INTERRELATIONSHIP
Annex A – Statement of Work, section 2.3.4. *System Acceptance Test* Appendix A1 – *Systems Performance Specifications*

8. ORIGINATOR PMO TIC3 AIR, TDL	**9. APPLICABLE FORMS** N/A

10. PREPARATION INSTRUCTIONS

10.1 Format

1. The SAT plan must be prepared in Supplier's format.

10.2 Content

10.2.1 The SAT plan must include the following information:

1. <u>Overview</u>. Consists of a brief description of the objectives of the SAT plan, including flow diagrams, milestones, personnel participation, and security requirements. This section must include the following:
   a. A functional description of the SAT program using a block diagram portrayal of the functions that must be met to satisfy the total acceptance program;
   b. Milestones and schedule that identify the start and expected completion dates and daily times of each test to be performed;
   c. List of Government and Supplier participation roles and responsibilities. The Supplier must provide an organizational chart showing reporting lines for the planned test;
   d. Any security measures of guidelines to be observed; and
   e. All administration, timings, meeting locations.
2. <u>Master Test List</u>. Lists all tests to be accomplished in the order they are to be performed. This listing must include the following:
   a. Location where the acceptance test is to be performed;
   b. Name and brief description of test to be performed;
3. <u>Equipment List</u>. The equipment list must contain all equipment to be used in the

acceptance test. The listing must include all test and support equipment by:

    a. Description;

    b. Nomenclature; and

    c. Serial number.

4. <u>Validation Procedure</u>. Details of the procedures that the Supplier will use to validate the test results which includes the following:

    a. Details of the procedures that the Supplier will use to validate the test results;

    b. Details of the procedures that Canada will use to validate the test results; and

    c. Details of the briefing that Canada will receive in order to validate the tests that includes the System configuration, the software configuration and the communication configuration.

10.3 Additional Information

The report must include any general information that aids in understanding and define any terms and acronyms used in the report.

DID ACQ-TD-004: Systems Acceptance Test (SAT) Report

DATA ITEM DESCRIPTION		
1. TITLE	**2. IDENTIFICATION NUMBER**	
Systems Acceptance Test (SAT) Report	ACQ-TD-004	
3. DESCRIPTION		
The SAT Report must contain the results of measurements and observations from test cases and test procedures necessary to perform formal qualification testing of each Fixed TDL GEP system type and relevant integration test. The SAT Reports enable the Project Authority to assess the readiness for delivery of the Fixed TDL GEP system.		
4. APPROVAL DATE At least 10 working days	**5. OFFICE OF PRIMARY INTEREST** PMO TIC3 AIR	**6. OFFICE of COLLATERAL INTEREST** N/A
7. APPLICATION/INTERRELATIONSHIP Annex A – Statement of Work, section 2.3.4. *System Acceptance Test* Appendix A1 – *Systems Performance Specifications*		
8. ORIGINATOR PMO TIC3 AIR, TDL	**9. APPLICABLE FORMS** N/A	

10. PREPARATION INSTRUCTIONS
 	
 10.1 Format
 	
    2.   The SAT report must be prepared in Supplier's format.
 	
 10.2 Content
 	
    3.   The System Acceptance Test Report documents the Fixed TDL GEP capability type end-to-end performance in accordance with the SPS documentation.
    4.   Specifically, the Test Program for the Fixed TDL GEP type has been successfully executed and test data results are documented.
    5.   The Report includes recommended deviation if any, and/or trade-off, and/or risk resolution approach that must be done prior to the Fixed TDL GEP type delivery.
 	
 10.3 Additional Information
 	
 The report must include any general information that aids in understanding and define any terms and acronyms used in the report.		

DID ACQ-ILS-001: Training Package

<table>
<tr>
<td colspan="2" align="center">**DATA ITEM DESCRIPTION**</td>
</tr>
<tr>
<td>**1. TITLE**

Training Package</td>
<td>**2. IDENTIFICATION NUMBER**

ACQ-ILS-001</td>
</tr>
<tr>
<td colspan="2">**3. DESCRIPTION**

The Fixed TDL GEP Training Package consists of all course materials (including course schedules, master lesson plans, lesson plans, audio/visual aids and student materials) required for the conduct of the Fixed TDL GEP Operator and Maintainer training serials.

These materials enable the DND PA to deliver further serials of operator training without the involvement of the Supplier if required. DND therefore reserves the right to modify the contents of the Fixed TDL GEP Training Plan for its own use, if required</td>
</tr>
</table>

4. APPROVAL DATE At least 10 working days	**5. OFFICE OF PRIMARY INTEREST** PMO TIC3 AIR	**6. OFFICE of COLLATERAL INTEREST** N/A

<table>
<tr>
<td colspan="2">**7. APPLICATION/INTERRELATIONSHIP**

Annex A – Statement of Work, section 2.4.2 *Initial Cadre Training*</td>
</tr>
<tr>
<td>**8. ORIGINATOR**

PMO TIC3 AIR, TDL</td>
<td>**9. APPLICABLE FORMS**

N/A</td>
</tr>
<tr>
<td colspan="2">

10. PREPARATION INSTRUCTIONS

10.1 Format

1. The Training Package must adhere to chapter 4 of:
    a. "*CANADIAN FORCES INDIVIDUAL TRAINING & EDUCATION SYSTEM ANALYSIS OF INSTRUCTIONAL REQUIREMENTS VOLUME 3*"
2. The Training Package must be prepared in the Supplier's format.

10.2 Objectives

1. The Training Package must ensure the Operators are provided the knowledge and skills to correctly and independently deploy, setup, configure and operate the Fixed TDL GEP systems and ancillary equipment, monitor system performance, install ancillary parts, close down and redeploy the station if necessary.
2. The Training Package must ensure maintainers are provided the knowledge and skills to correctly and independently perform the duties of the Operator as well as inspect, perform preventative maintenance, troubleshoot, diagnose and correct Fixed TDL GEP problems using on-board diagnostics and specialized test equipment.
3. The Training Package must include, but is not limited to, 2 separate Course Packages each capable of being delivered independently:

    a. Fixed TDL GEP Operator
    b. Fixed TDL GEP Maintainer

</td>
</tr>
</table>

10.3 Content

1. Each Course Package in the Fixed TDL GEP Training Package must include all lesson plans, teaching material and a master lesson plan outlining all lesson plans sequence and timing. Course packages may contain identical training modules where technical and/or procedural overlap exists between Fixed TDL GEP's and between Operator and Maintainer Disciplines.
2. The Lesson Plans must include, but not be limited to, the following:
   a. The objectives/main teaching points of the training;
   b. The training needs analysis and teaching methodology (context, lecture, demonstration and practice)
   c. Required preparations in advance of training presentations;
   d. Required training aides;
   e. Composition and quantity of Fixed TDG GEP Sub-Systems and Ancillaries needed for training purposes;
   f. Training content, sequence and duration – including the flow of exercises and demonstrations so as to make effective use of the students time and instructors' availability;
   g. Relevant references and documents;
   h. Provisions for capturing lessons learned and proposed modifications to the training based on the critiques received from the participants;
   i. Translation of training material;
   j. Provisions for updating training material – after each training session, subsequent to DND training validation, and after changes to the Fixed TDL GEPs.

10.4 Additional Information

The training package must include any general information that aids in understanding and define any terms and acronyms used in the documents.

APPENDIX A4

GOVERNMENT FURNISHED EQUIPMENT

FIXED TACTICAL DATA LINK GROUND ENTRY POINT

W8475-235518/001

1. GOVERNMENT FURNISHED EQUIPMENT (GFE)

The following software, systems and materials will be provided by Canada as part of the delivered TDL GEP solution.

1.1 Communication Systems and Materials

1.1.1 Link 16 Equipment

1. MIDS JTRS (MIDS J).
2. RF cables and port adapters as required;
3. High gain antenna;
4. Power Supply Module;
5. Fan Tray;
6. All required cables and ancillaries;
7. Link-16 Notch Filter;
8. Host Platform Converter, including Ethernet/MIL-STD 1553 Adapter.

1.1.2 Networking Equipment

1. High Assurance Internet Protocol Encryption (HAIPE) device (configured);
2. Secure Communications Interoperability Protocol (SCIP) device (configured);
3. Advanced military GPS receiver (configured).
4. Cisco ISR 4331 (or equivalent) and ancillary (SFPs, Fiber cables)

1.2 Workstation and Peripherals

1.2.1 Workstations

1. Computer and/or Laptop

1.2.2 Peripherals

1. Ethernet IP Switch

1.3 Site Facility

1.3.1 Equipment Room/Shelter

1. Standard server rack 19"W x 24"D x 20 rack unit (U) high
2. Power Generators
3. HVAC System
4. Network drops (TDL WAN/CSNI/Commercial network)
5. PSTN drop (North Bay)
6. Power grid.

APPENDIX A5

PRIORITY OF DELIVERY

FIXED TACTICAL DATA LINK GROUND ENTRY POINT

W8475-235518/001

1   Prioritization of Fixed TDL GEP Capabilities Delivery

The implementation and delivery of the TDL GEP's capabilities as described in the Appendix A1 – *System Performance Specifications* must be based on the assigned priority as presented in the table below.

SPS Requirement #	IDC	FDC	Specification
3.2.1.	√		Required systems and subsystems for the following: a. Qty 1 Fixed Central TDL GEP b. Qty 3 Fixed Parent TDL GEP
		√	Required systems and subsystems for Qty 12 Fixed Child TDL GEP.
3.2.1.1.	√		All mandatory sub-requirements.
		√	All rated sub-requirements.
3.2.1.2.	√		All mandatory sub-requirements.
		√	All rated sub-requirements.
3.2.1.3.	√		All mandatory sub-requirements.
		√	All rated sub-requirements.
3.2.1.4.	√		All applicable mandatory sub-requirements.
3.2.1.5.	√		All applicable mandatory sub-requirements.
3.2.1.6.	√		All applicable mandatory sub-requirements.
3.2.1.7.	√		All applicable requirements as per SPS.
3.2.2.1.	√		All mandatory sub-requirements.
3.2.2.2.	√		All mandatory sub-requirements.
3.2.2.3.	√		All applicable requirements as per SPS.
3.2.3.1.	√		All mandatory sub-requirements.
3.2.3.2.	√		All applicable requirements as per SPS.

APPENDIX A6

INSTALLATION SITES

FIXED TACTICAL DATA LINK GROUND ENTRY POINT

W8475-235518/001

System Number	Site Location (Province)	Fixed TDL GEP Variant[1]
1	Gander (NL)	Fixed Child TDL GEP
2	Greenwood (NS)	Fixed Child TDL GEP
3	Shearwater (NS)	Fixed Child TDL GEP
4	Montreal (QC)	Fixed Child TDL GEP
5	Bagotville (QC)	Fixed Parent TDL GEP
6	Toronto (ON)	Fixed Child TDL GEP
7	North Bay (ON)	Fixed Central TDL GEP
8	Trenton (ON)	Fixed Parent TDL GEP
9	Winnipeg (MB)	Fixed Parent TDL GEP
10	Cold Lake (AB)	Fixed Child TDL GEP
11	Edmonton (AB)	Fixed Child TDL GEP
12	Comox (BC)	Fixed Child TDL GEP
13	Aldergrove (BC)	Fixed Child TDL GEP
14	Goose Bay (NL)	Fixed Child TDL GEP
15	Yellowknife (NT)	Fixed Child TDL GEP

[1] Refer to Annex A1 – System Performance Specification for the definition of Fixed TDL GEP variant.

ANNEX B

IN-SERVICE SUPPORT – STATEMENT OF WORK

TACTICAL DATA LINK GROUND ENTRY POINT

W8475-235518/001

1.	**INTRODUCTION**

This Statement of Work (SOW) defines the work required to sustain the systems and subsystems delivered in support of the TIC3 Air Tactical Data Link (TDL) Ground Entry Point (GEP) acquisition. The TDL GEPs are installed at various CAF bases and areas of strategic importance across Canada. At a minimum, sixteen of these GEPs will be in service. The scope of work required as part of this SOW will include basic maintenance and support (Section 2.1), task based support (Section 2.2), and optional acquisitions (Section 2.3).

2.	**WORK REQUIREMENTS**

The work to be performed by the Supplier to support the Fixed TDL GEP systems is as follows:

2.1. Basic Maintenance and Support (Monthly Rate)

2.1.1. Configuration and Obsolescence Management

1. The Supplier must prepare and submit annual Configuration Management (CM) and Obsolescence reports to Canada, in the Supplier's format, for the duration of the Contract.

2. The report must include information on the state of the provided systems and sub-systems compliancy with the NATO security standards and requirements.

2.1.2. System Software Maintenance

1. The Supplier must provide Canada with all minor routine software updates and bug fixes.

2.1.3. Technical Support

1. The Supplier must remain responsive to Canada's inquiries during the Supplier's normal business hours. Most inquiries will be made through emails and could include request for quote, technical inquires, preliminary security and runtime fault analysis.

2. The Supplier must provide an initial response within 2 business days of receipt of an inquiry.

2.2. Task Based Support (Hourly Rate)

2.2.1. System and Software Upgrade

1. When tasked, the Supplier must:

    a. Update the systems software in order to maintain compliance with NATO security standards and requirements whereas applicable.

    b. Upgrade software as necessary.

    c. Provide software code, documentation, and expert support to Canada for Information Assurance and software certification purposes.

2.2.2. General Engineering and Maintenance Services (GEMS)

1. When tasked, the Supplier must:

    a. Provide support to Canada to facilitate the effective evaluation, design, development, prototyping, qualification, modifications, and updates to the Fixed TDL GEP.

    b. Support all additional installation and integration work.

2.3. Optional Baseline Items Purchase

2.3.1. Baseline Training Courses

1. When tasked, the Supplier must develop, update, and conduct Operator and Maintenance training course.

2. When tasked, the Supplier must provide the support to DND's Instructors for the training of Fixed TDL GEP Operators and Maintainers.

3. The Supplier must update the Operator and Maintenance training packages to maintain currency throughout the life cycle of the provided systems and subsystems for Fixed TDL GEP variants.

2.4. Government Supplied Materiel (GSM), Equipment (GFE), and Information (GFI)

If required, Canada will provide the Supplier with any GSM, GFE, and GFI required to support the In-Service Support of the Fixed TDL GEP.

2.5. Travel and Living

2.5.1. Travel Authorization Request

1. In support of systems integration and additional work requests, the Supplier will be reimbursed its authorized travel and living expenses which must be reasonably and properly incurred in the performance of the task, 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, (https://www.njc-cnm.gc.ca/directive/travel-voyage/index-eng.php), and with the other provisions of the directive referring to "travelers", rather than those referring to "employees".

2. All travel authorization request (TAR) must be submitted and approved in advance and in writing by the DND Procurement Authority (PA) prior to making any travel arrangements.

3. The TAR must include the estimate of all travel and living costs in accordance with the paragraph 1 in this Sub-section 2.5.1.

2.5.2. Reimbursement

1. The Supplier must provide the details of the travel and living expenses with each claim including copies of invoices and remit original receipts to the PA for reimbursement. All travel and living expenses are subject to Government Audit before or after the claim is paid.

2. Travel and Living expenses shall not be reimbursed where the costs are associated with the deliverables in accordance with Sub-section 2.3.

3. Travel and expenses will be reimbursed in full in support of all other activities in accordance with Sub-section 2.2.

ANNEX C

BASIS OF PAYMENT

Acquisition

FIXED TACTICAL DATA LINK GROUND ENTRY POINT

W8475-235518/001

1. BASIS OF PAYMENT

1.1. Contract Payment Requirement

1.1.1. System Deliverables

1. The Supplier shall be paid, Firm Fixed Prices (FFP) (DDP included – Incoterms 2020) as shown in the table below for the implementation activities and delivery of systems and subsystems for Fixed TDL GEP IDC variant, as outlined in Annex A - Statement of Work (SOW).

Line item	Description	Unit Price	Qty (Site)	Extended Price
1	Required systems and subsystems for Fixed Central TDL GEP IDC (Section 2.1.1 - Annex A)	$	1	$
2	Required systems and subsystems for Fixed Parent TDL GEP IDC (Section 2.1.2 - Annex A)	$	3	$
3	Required systems and subsystems for Fixed Child TDL GEP (Section 2.1.3 - Annex A)	$	12	$

1.1.2. Integrated Logistics Support (ILS)

1. The Supplier shall be paid, Firm Fixed Prices (FFP) as shown in the table below, for delivery of ILS program documentation and training activities on the delivered systems and subsystems for Fixed TDL GEP, as outlined in Annex A - SOW.

Line item	Description	Unit Price	Qty	Extended Price
4	Technical publications & documentation of the delivered systems and subsystems (Section 2.4.1 – ILS Program, Annex A)	$	1[1]	$
5	Operator Training (for 12 seats) (Section 2.4.2 – Initial Cadre Training, Annex A)	$	2	$
6	Maintainer Training (for 12 seats) (Section 2.4.2 – Initial Cadre Training, Annex A)	$	2	$

Notes:
1. Number of copies for each document to be delivered

1.1.3. Optional System Deliverables

1. When requested and approved by Canada, the Supplier shall be paid, Firm Fixed Prices (FFP) (DDP included – Incoterms 2020) as shown in the table below for the delivery of systems and subsystems for Fixed TDL GEP variant, as outlined in Annex A - SOW.

Line item	Description	Unit Price	Qty (Site)	Extended Price
7	Required systems and subsystems for Fixed Parent TDL GEP (Section 3.1.2 - Annex A)	$	1	$
8	Required systems and subsystems for Fixed Child TDL GEP (Section 3.1.3 - Annex A)	$	1	$

2. When requested and approved by Canada, the Supplier shall be paid, Firm Fixed Prices (FFP) (DDP included – Incoterms 2020) as shown in the table below for hourly rates associated with the integration support (on and off site) of systems and subsystems for Fixed Child TDL GEP, as referenced in Section 3.1.3 in Annex A, at the locations specified in Appendix A6 – *Installation Sites*.

Line Item	Acquisition Contract Year	Hourly Rate				
		Project Manager	Engineer	Software Developer	Technician	Technical Writer
9	1	$	$	$	$	$
10	2	$	$	$	$	$

1.1.4. Optional Integrated Logistics Support

1. When tasked by Canada, the Supplier shall be paid, Firm Fixed Prices (FFP) as shown in the table below, for delivery of ILS program documentation and training activities on the delivered systems and subsystems for Fixed TDL GEP, as outlined in Annex A – Statement of Work.

Line item	Description	Unit Price	Qty	Extended Price
11	Operator Training (for 12 seats) (Section 3.2.1 of Annex A)	$	2	$
12	Maintainer Training (for 12 seats) (Section 3.2.2 of Annex A)	$	2	$

ANNEX D

BASIS OF PAYMENT

In-Service Support

W8475-235518/001

1. BASIS OF PAYMENT

1.1. Contract Payment Requirement

1.1.1. Basis Maintenance and Support (Monthly Rate)

1. The Monthly Rate must be independent of the number of systems and subsystems acquired through Acquisition and In-Service Support (ISS) contracts.

2. The Supplier shall be paid, Firm Fixed Prices as shown in the table below, for the monthly support covering the basic maintenance and support activities, as outlined in the section 2.1 of Annex B – Statement of Work:

ISS Contract Year	Monthly Rate
1	$
2	$
3	$
4	$
5	$
6 (Option)	$
7 (Option)	$

1.1.2. Task Basic Maintenance and Support (Hourly Rate)

1. When authorized by Canada, the Supplier shall be paid, Firm Fixed Prices (FFP) (DDP included – Incoterms 2020) as shown in the table below for hourly rates associated with the performance of tasks related to the systems maintenance and support, as outlined in the section 2.2 of Annex B – Statement of Work.

ISS Contract Year	Hourly Rate				
	Project Manager	Engineer	Software Developer	Technical Writer	Technician
1	$	$	$	$	$
2	$	$	$	$	$
3	$	$	$	$	$
4	$	$	$	$	$
5	$	$	$	$	$
6 (Option)	$	$	$	$	$
7 (Option)	$	$	$	$	$

1.1.3. Optional Baseline Items Purchase

1. When tasked and approved by Canada, the Supplier shall be paid, Firm Fixed Prices (FFP) (DDP included – Incoterms 2020) as shown in the table below for conducting and/or supporting the training courses.

ISS Contract Year	Firm Fixed Unit Price			
	Operator Training	Maintainer Training	Operator Training Support	Maintainer Training Support
1	$	$	$	$
2	$	$	$	$
3	$	$	$	$
4	$	$	$	$
5	$	$	$	$
6 (Option)	$	$	$	$
7 (Option)	$	$	$	$

ANNEX E

Basis of Evaluation

W8475-235518/001

Prices extracted from Annex C-ACQ-Basis of Payment

System Deliverables

Item	Unit Price	Qty (Site)	Extended Price
Required systems and subsystems for Fixed Central TDL GEP IDC (Section 2.1.1 - Annex A)		1	$ -
Required systems and subsystems for Fixed Parent TDL GEP IDC (Section 2.1.2 - Annex A)		3	$ -
		Total	$ -

Item	Unit Price	Qty (Site)	Extended Price
Required systems and subsystems for Fixed Child TDL GEP (Section 2.1.3 - Annex A)		12	$ -
		Total	$ -

Integrated Logistics Support (ILS)

Item	Unit Price	Qty	Extended Price
Technical publications & documentation of the delivered systems and subsystems (Section 2.4.1 – ILS Program, Annex A)		1	$ -
Operator Training (for 12 seats). (Section 2.4.2 – Initial Cadre Training, Annex A)		2	$ -
Maintainer Training (for 12 seats). (Section 2.4.2 – Initial Cadre Training, Annex A)		2	$ -
		Total	$ -

Optional System Deliverables

Item	Unit Price	Qty (Kit/Site)	Extended Price
Required systems and subsystems for Fixed Parent TDL GEP (Section 3.1.2 - Annex A)		1	$ -
Required systems and subsystems for Fixed Child TDL GEP (Section 3.1.3 - Annex A)		1	$ -
		Total	$ -

Acquisition Contract Year	Hourly Rate				
	Project Manager	Engineer	Software Developer	Technician	Technical Writer
1					
2					

Optional Integrated Logistics Support

Item	Unit Price	Qty	Extended Price
Operator Training (for 12 seats). (Section 3.2.1 of Annex A)		2	$ -
Maintainer Training (for 12 seats). (Section 3.2.2 of Annex A)		2	$ -
		Total	$ -

Prices extracted from Annex D-ISS-Basis of Payment

Basic Maintenance and Support (Monthly Rate)

ISS Contract Year	Monthly Rate
1	
2	
3	
4	
5	
6 (Option)	
7 (Option)	

Task Based Maintenance and Support (Hourly Rate)

ISS Contract Year	Hourly Rate				
	Project Manager	Engineer	Software Developer	Technical Writer	Technician
1					
2					
3					
4					
5					
6 (Option)					
7 (Option)					

Optional Baseline Items Purchase

ISS Contract Year	Firm Fixed Unit Price			
	Operator Training	Maintainer Training	Operator Training Support	Maintainer Training Support
1				
2				
3				
4				
5				
6 (Option)				
7 (Option)				

Contract	Acq BoP Link	Item		Qty	Unit Price	Total Price (Quantity x Unit Cost)
Acquisition	1.1.1	Systems and Subsystems for Fixed Central TDL GEP - IDC		1	$ -	$ -
	1.1.1	Systems and Subsystems for Fixed Parent TDL GEP - IDC		3	$ -	$ -
	1.1.1	Systems and Subsystems for Fixed Child TDL GEP - FDC		12	$ -	$ -
	1.1.2	Fixed TDL GEP Documentation		1	$ -	$ -
	1.1.2	Fixed TDL GEP Operator Training		2	$ -	$ -
	1.1.2	Fixed TDL GEP Maintainer Training		2	$ -	$ -
	1.1.3	Optional Integration Support - Hourly Rate Averages	Project Manager Hourly Rate	80	#DIV/0!	#DIV/0!
	1.1.3		Engineer Hourly Rate	800	#DIV/0!	#DIV/0!
	1.1.3		Software Developer	800	#DIV/0!	#DIV/0!
	1.1.3		Technician Hourly Rate	800	#DIV/0!	#DIV/0!
	1.1.3		Technical Writer Hourly Rate	80	#DIV/0!	#DIV/0!
	1.1.4	Fixed TDL GEP Operator Training - Option		2	$ -	$ -
	1.1.4	Fixed TDL GEP Maintainer Training - Option		2	$ -	$ -
	1.1.3	Systems and Subsystems for Fixed Parent TDL GEP - Option		1	$ -	$ -
	1.1.3	Systems and Subsystems for Fixed Child TDL GEP - Option		1	$ -	$ -
		Total Acquisition Bid				#DIV/0!
		Acquisition Weighting				75.00%

Contract	ISS BoP Link	Item		Qty	Unit Price	Total Price (Quantity x Unit Price)
ISS	1.1.3	Baseline Training Courses	Operator Training Course	2	#DIV/0!	#DIV/0!
	1.1.3		Maintainer Training Course	2	#DIV/0!	#DIV/0!
	1.1.3		Operator Training Course Support	1	#DIV/0!	#DIV/0!
	1.1.3		Maintainer Training Course Support	1	#DIV/0!	#DIV/0!
	1.1.2		Project Manager Hourly Rate	480	#DIV/0!	#DIV/0!

	1.1.2	Task Based Support - Hourly Rate Averages	Engineer Hourly Rate	1920	#DIV/0!	#DIV/0!
	1.1.2		Technical Writer Hourly Rate	1280	#DIV/0!	#DIV/0!
	1.1.2		Software Developer Hourly Rate	480	#DIV/0!	#DIV/0!
	1.1.2		Technician Hourly Rate	3200	#DIV/0!	#DIV/0!
	1.1.1		Monthly ISS Rate	84	#DIV/0!	#DIV/0!

Total ISSC Bid	#DIV/0!
ISSC Weighting	100.00%

Final Weighted Acquisition Bid (Total Weighted Acquisition Bid x Acquisition Weighting)	#DIV/0!
Final Weighted ISSC Bid (Total Weighted ISSC Bid x ISSC Weighting)	#DIV/0!
Final Weighted Bid (Final Weighted Acquisition Bid + Final Weighted ISSC Bid)	**#DIV/0!**

Financial Evaluation	
Minimum Compliant Bid (CAD)	
Financial weighting (%)	35
Financial bid (CAD)	#DIV/0!
Financial score	#DIV/0!

Technical Evaluation	
Technical Bid	
Technical weighting (%)	65
Max technical points (Annex F)	550
Technical score	0

Summary	
Financial Score	**#DIV/0!**
Technical Score	**0.00**
Total Score	**#DIV/0!**

ANNEX F

Evaluation and Compliance Matrix

W8475-235518/001

Statement of Work (SOW) Compliance

Bidder's Name:

Statement of Work Mandatory Requirements Compliance Matrix (*Reference to Annex A - Statement of Work*)

Fixed TDL GES SOW Para. Number	Compliance Statement	Compliance Reference
2.1.1.	Compliant	
2.1.2.	Compliant	
2.1.3.	Compliant	
2.2.1.1.	Compliant	
2.2.1.2.	Compliant	
2.2.1.3.	Compliant	
2.2.2.1.	Compliant	
2.2.2.2.	Compliant	
2.2.2.3.	Compliant	
2.2.2.4.	Compliant	
2.2.3.1.	Compliant	
2.2.3.2.	Compliant	
2.3.1.1.	Compliant	
2.3.1.2.	Compliant	
2.3.2.1.	Compliant	
2.3.2.2. & 2.3.2.2.a	Compliant	
2.3.2.2. & 2.3.2.2.b	Compliant	
2.3.2.2. & 2.3.2.2.c	Compliant	
2.3.2.2. & 2.3.2.2.d	Compliant	
2.3.2.3.	Compliant	
2.3.3.1.	Compliant	

2.3.3.2.	Compliant	
2.3.3.3.	Compliant	
2.3.4.1.	Compliant	
2.3.4.2.	Compliant	
2.3.4.3.	Compliant	
2.3.4.4.	Compliant	
2.4.1.1. & 2.4.1.1.a.	Compliant	
2.4.1.1. & 2.4.1.1.b.	Compliant	
2.4.1.1. & 2.4.1.1.c.	Compliant	
2.4.1.1. & 2.4.1.1.d.	Compliant	
2.4.1.2. & 2.4.1.2.a.	Compliant	
2.4.1.2. & 2.4.1.2.b.	Compliant	
2.4.1.2. & 2.4.1.2.c.	Compliant	
2.4.1.2. & 2.4.1.2.d.	Compliant	
2.4.1.2. & 2.4.1.2.e.	Compliant	
2.4.2.1.	Compliant	
2.4.2.2. & 2.4.2.2.a.	Compliant	
2.4.2.2. & 2.4.2.2.b.	Compliant	
2.4.2.2. & 2.4.2.2.c.	Compliant	
2.4.2.2. & 2.4.2.2.d.	Compliant	
2.4.2.3. & 2.4.2.3.a.	Compliant	
2.4.2.3. & 2.4.2.3.b.	Compliant	
3.1.1.	Compliant	
3.1.2.	Compliant	0
3.1.3.1	Compliant	
3.1.3.2.	Compliant	
3.1.3.3.	Compliant	
3.2.1.	Compliant	
3.2.2.	Compliant	
4.1.1.1.	Compliant	
4.1.1.2.	Compliant	
4.1.2.	Compliant	
4.2.1. & 4.2.1.1.	Compliant	

4.2.1. & 4.2.1.2.	Compliant	
4.2.1. & 4.2.1.3.	Compliant	
4.3.2. & 4.3.2.1	Compliant	
4.3.3.	Compliant	
4.4.1 & 4.4.1.1.	Compliant	
4.4.1 & 4.4.1.2.	Compliant	
4.4.1 & 4.4.1.3.	Compliant	
4.4.2.1.	Compliant	
4.4.2.2.	Compliant	
4.4.2.3.	Compliant	

System Performance Specification (SPS) Compliance

Bidder's Name:

System Performance Specification Mandatory Requirements Compliance Matrix (*Reference to Appendix A1 - System Performance Specification*)		
Fixed TDL GES SPS Para. Number	**Compliance Statement**	**Compliance Reference**
3.1.1.1.	Compliant	
3.1.1.2. & 3.1.1.2.a.	Compliant	
3.1.1.2. & 3.1.1.2.b.	Compliant	
3.1.1.4.	Compliant	
3.1.1.5.a.	Compliant	
3.1.1.5.b. & 3.1.1.5.b.(i).	Compliant	
3.1.1.5.b. & 3.1.1.5.b.(ii).	Compliant	
3.1.1.5.c.	Compliant	
3.1.1.5.d.	Compliant	
3.1.1.5.g. & 3.1.1.5.g.(i).	Compliant	
3.1.1.5.g. & 3.1.1.5.g.(ii).	Compliant	
3.1.1.5.g. & 3.1.1.5.g.(iii).	Compliant	

3.1.1.5.g. & 3.1.1.5.g.(iv).	Compliant	
3.1.1.5.g. & 3.1.1.5.g.(v).	Compliant	
3.1.1.5.g. & 3.1.1.5.g.(v). & 3.1.1.5.g.(v).(1)	Compliant	
3.1.1.5.h.	Compliant	
3.1.1.5.i.	Compliant	
3.1.1.5.o	Compliant	
3.1.1.5.p	Compliant	
3.1.1.5.q	Compliant	
3.1.1.5.r	Compliant	
3.1.1.5.s	Compliant	
3.1.1.5.t	Compliant	
3.1.1.5.u	Compliant	
3.1.1.5.v.(i).	Compliant	
3.1.1.5.v.(ii).	Compliant	
3.1.1.5.v.(iii).	Compliant	
3.1.1.5.v.(iv).	Compliant	
3.1.1.5.v.(v).	Compliant	
3.1.1.5.v.(vi).	Compliant	
3.1.1.5.v.(vii).(1)	Compliant	
3.1.1.5.v.(vii).(2)	Compliant	
3.1.1.6.a.	Compliant	
3.1.1.6.b.	Compliant	
3.1.1.6.c.	Compliant	
3.1.1.6.d.	Compliant	

3.1.1.6.f.	Compliant	
3.1.1.6.g.	Compliant	
3.1.1.6.h.	Compliant	
3.1.1.6.k	Compliant	
3.1.1.6.l	Compliant	
3.1.1.6.m	Compliant	
3.1.1.6.n	Compliant	
3.1.1.6.o	Compliant	
3.1.1.6.p	Compliant	
3.1.1.6.q	Compliant	
3.1.1.6.r.(i).	Compliant	
3.1.1.6.r.(ii).	Compliant	
3.1.1.6.r.(iii).	Compliant	
3.1.1.6.r.(iv).	Compliant	
3.1.1.6.r.(v).	Compliant	
3.1.1.6.r.(vi).	Compliant	
3.1.1.6.r.(vii).(1)	Compliant	
3.1.1.6.r.(vii).(2)	Compliant	
3.1.1.6.r.(viii).	Compliant	
3.1.1.7.	Compliant	
3.1.2.1. & 3.1.2.1.a.	Compliant	
3.1.2.1. & 3.1.2.1.b.	Compliant	
3.1.2.1. & 3.1.2.1.c.	Compliant	
3.1.2.1. & 3.1.2.1.d.	Compliant	

3.1.2.3	Compliant	
3.1.2.4.a.	Compliant	
3.1.2.4.b.	Compliant	
3.1.2.4.c.	Compliant	
3.1.2.4.d.	Compliant	
3.1.2.4.e & 3.1.2.4.e.(i).	Compliant	
3.1.2.4.e & 3.1.2.4.e.(ii).	Compliant	
3.1.2.4.e & 3.1.2.4.e.(iii).	Compliant	
3.1.2.4.e & 3.1.2.4.e.(iv).	Compliant	
3.1.2.4.e & 3.1.2.4.e.(v).	Compliant	
3.1.2.4.e & 3.1.2.4.e.(vi).	Compliant	
3.1.2.4.f	Compliant	
3.1.2.4.g & 3.1.2.4.g.(i).	Compliant	
3.1.2.4.g & 3.1.2.4.g.(ii).	Compliant	
3.1.2.4.g & 3.1.2.4.g.(iii).	Compliant	
3.1.2.4.g & 3.1.2.4.g.(iv).	Compliant	
3.1.2.4.g & 3.1.2.4.g.(v).	Compliant	
3.1.2.4.h.	Compliant	
3.1.2.4.j	Compliant	
3.1.2.4.k	Compliant	
3.1.2.4.l	Compliant	
3.1.2.4.m	Compliant	
3.1.2.4.n	Compliant	
3.1.2.4.o	Compliant	

3.1.2.4.p	Compliant	
3.1.2.5.a	Compliant	
3.1.2.5.b	Compliant	
3.1.2.5.d & 3.1.2.5.d.(i).	Compliant	
3.1.2.5.d & 3.1.2.5.d.(ii).	Compliant	
3.1.2.5.d & 3.1.2.5.d.(iii).	Compliant	
3.1.2.5.d & 3.1.2.5.d.(iv).	Compliant	
3.1.2.5.e.	Compliant	
3.1.2.5.f.	Compliant	
3.1.2.5.g.	Compliant	
3.1.2.5.i.	Compliant	
3.1.2.5.l.	Compliant	
3.1.2.5.m.	Compliant	
3.1.2.5.r & 3.1.2.5.r.(i).	Compliant	
3.1.2.5.r & 3.1.2.5.r.(ii).	Compliant	
3.1.2.5.s	Compliant	
3.1.2.5.t.(i).	Compliant	
3.1.2.5.t.(ii).	Compliant	
3.1.2.5.t.(iii).	Compliant	
3.1.2.5.t.(iv).	Compliant	
3.1.2.5.t.(v).	Compliant	
3.1.2.5.t.(vi).	Compliant	
3.1.2.5.t.(vii) & 3.1.2.5.t.(vii).(1)	Compliant	
3.1.2.5.t.(vii) & 3.1.2.5.t.(vii).(2)	Compliant	

3.1.3.1.	Compliant	
3.1.3.2.	Compliant	
3.1.3.3.	Compliant	
3.1.3.4.a. & 3.1.3.4.a.(i).	Compliant	
3.1.3.4.a. & 3.1.3.4.a.(ii).	Compliant	
3.1.3.4.b.	Compliant	
3.1.3.4.c.	Compliant	
3.1.3.4.d.	Compliant	
3.1.3.4.f.	Compliant	
3.1.3.4.g. & 3.1.3.4.g.(i).	Compliant	
3.1.3.4.g. & 3.1.3.4.g.(ii).	Compliant	
3.1.3.4.g. & 3.1.3.4.g.(iii).	Compliant	
3.1.3.4.h.	Compliant	
3.1.3.4.i.(i).	Compliant	
3.1.3.4.i.(ii).	Compliant	
3.1.3.4.i.(iii).	Compliant	
3.1.3.4.i.(iv).	Compliant	
3.1.3.4.i.(v).	Compliant	
3.1.3.4.i.(vi).	Compliant	
3.1.3.4.i.(vii). & 3.1.3.4.i.(vii).(1.)	Compliant	
3.1.3.4.i.(vii). & 3.1.3.4.i.(vii).(2.)	Compliant	
3.1.3.4.i.(viii).	Compliant	
3.1.3.5.a. & 3.1.3.5.a.(i).	Compliant	
3.1.3.5.a. & 3.1.3.5.a.(ii).	Compliant	

3.1.3.5.a. & 3.1.3.5.a.(iii)	Compliant	
3.1.3.5.b.	Compliant	
3.1.3.5.d.	Compliant	
3.1.3.5.e.	Compliant	
3.1.3.5.f.	Compliant	
3.1.3.5.g.	Compliant	
3.1.3.5.h.	Compliant	
3.1.3.5.i. & 3.1.3.5.i.(i).	Compliant	
3.1.3.5.i. & 3.1.3.5.i.(ii).	Compliant	
3.1.3.5.i. & 3.1.3.5.i.(iii).	Compliant	
3.1.3.5.j.	Compliant	
3.1.3.5.k.	Compliant	
3.1.3.5.l.	Compliant	
3.1.3.5.m. & 3.1.3.5.m.(i).	Compliant	
3.1.3.5.m. & 3.1.3.5.m.(ii).	Compliant	
3.1.3.5.m. & 3.1.3.5.m.(iii).	Compliant	
3.1.3.5.m. & 3.1.3.5.m.(iv).	Compliant	
3.1.3.5.n.(i).	Compliant	
3.1.3.5.n.(ii).	Compliant	
3.1.3.5.n.(iii).	Compliant	
3.1.3.5.n.(iv).	Compliant	
3.1.3.5.n.(v).	Compliant	
3.1.3.5.n.(vi).	Compliant	
3.1.3.5.n.(vii). & 3.1.3.5.n.(vii).(1.).	Compliant	

3.1.3.5.n.(vii). & 3.1.3.5.n.(vii).(2.).	Compliant	
3.1.3.5.n.(viii).	Compliant	
3.1.4.1.	Compliant	
3.1.4.2.	Compliant	
3.1.4.3.	Compliant	
3.1.4.4.	Compliant	
3.1.4.5.	Compliant	
3.1.4.6. & 3.1.4.6.a.	Compliant	
3.1.4.6. & 3.1.4.6.b.	Compliant	
3.1.4.7.	Compliant	
3.1.4.8.	Compliant	
3.1.4.9.	Compliant	
3.1.4.10. & 3.1.4.10.a. & 3.1.4.10.a.(i).	Compliant	
3.1.4.10. & 3.1.4.10.a. & 3.1.4.10.a.(ii).	Compliant	
3.1.4.10. & 3.1.4.10.a. & 3.1.4.10.a.(iii).	Compliant	
3.1.4.10.b.	Compliant	
3.1.4.10.c.	Compliant	
3.1.4.10.d.	Compliant	
3.1.4.11. & 3.1.4.11.a.	Compliant	
3.1.4.11. & 3.1.4.11.b.	Compliant	
3.1.4.11. & 3.1.4.11.c.	Compliant	
3.1.4.12. & 3.1.4.12.a.	Compliant	
3.1.4.12. & 3.1.4.12.b.	Compliant	
3.1.4.12. & 3.1.4.12.c.	Compliant	

3.1.4.13.	Compliant	
3.1.4.14.	Compliant	
3.1.4.15.	Compliant	
3.1.4.16.	Compliant	
3.1.4.17.	Compliant	
3.1.4.18.	Compliant	
3.1.4.19.	Compliant	
3.1.4.20	Compliant	
3.1.4.21.	Compliant	
3.1.4.22.	Compliant	
3.1.4.23.	Compliant	
3.1.4.24.	Compliant	
3.1.4.25.	Compliant	
3.1.4.26.	Compliant	
3.1.4.27.		
3.1.4.28. & 3.1.4.28.a.	Compliant	
3.1.4.28. & 3.1.4.28.b.	Compliant	
3.1.4.29. & 3.1.4.29.a.	Compliant	
3.1.4.29. & 3.1.4.29.b.	Compliant	
3.1.5.1. & 3.1.5.1.a	Compliant	
3.1.5.1. & 3.1.5.1.b	Compliant	
3.1.5.1. & 3.1.5.1.c	Compliant	
3.1.5.2.	Compliant	
3.1.5.3.	Compliant	

3.1.5.5.	Compliant	
3.1.5.6.	Compliant	
3.1.5.7.	Compliant	
3.1.5.8.	Compliant	
3.1.5.9.	Compliant	
3.1.5.10.	Compliant	
3.1.5.11.	Compliant	
3.1.5.12.	Compliant	
3.1.5.13.	Compliant	
3.1.5.14. & 3.1.5.14.a.	Compliant	
3.1.5.14. & 3.1.5.14.b.	Compliant	
3.1.5.14. & 3.1.5.14.c.	Compliant	
3.1.5.14. & 3.1.5.14.d.	Compliant	
3.1.5.14. & 3.1.5.14.e.	Compliant	
3.1.5.14. & 3.1.5.14.f. & 3.1.5.14.f.(i.).	Compliant	
3.1.5.14. & 3.1.5.14.f. & 3.1.5.14.f.(ii.).	Compliant	
3.1.5.14. & 3.1.5.14.g. & 3.1.5.14.g.(i.).	Compliant	
3.1.5.14. & 3.1.5.14.g. & 3.1.5.14.g.(ii.).	Compliant	
3.1.5.15. & 3.1.5.15.a.	Compliant	
3.1.5.15. & 3.1.5.15.b.	Compliant	
3.1.6.1	Compliant	
3.1.6.2	Compliant	
3.1.6.3	Compliant	
3.1.6.3.a	Compliant	

3.1.6.3.b	Compliant	
3.1.6.3.c	Compliant	
3.1.6.3.d	Compliant	
3.1.6.3.e	Compliant	
3.1.6.4	Compliant	
3.1.6.6	Compliant	
3.1.6.7.a.	Compliant	
3.1.6.7.b. & 3.1.6.7.b.(i)	Compliant	
3.1.6.7.b. & 3.1.6.7.b.(ii).	Compliant	
3.1.6.7.c. & 3.1.6.7.c.(i).	Compliant	
3.1.6.7.c. & 3.1.6.7.c.(ii).	Compliant	
3.1.6.7.d.	Compliant	
3.1.6.7.e.	Compliant	
3.1.6.7.f.	Compliant	
3.1.6.7.g.	Compliant	
3.1.6.7.i.	Compliant	
3.1.6.7.j.	Compliant	
3.1.6.7.k.	Compliant	
3.1.6.7.l.	Compliant	
3.1.6.7.m.	Compliant	
3.1.6.7.n.	Compliant	
3.1.6.7.o.	Compliant	
3.1.6.7.p.	Compliant	
3.1.6.7.q.	Compliant	

3.1.6.7.r.	Compliant	
3.1.6.7.s.	Compliant	
3.1.6.7.t.	Compliant	
3.1.6.7.u. & 3.1.6.7.u.(i).	Compliant	
3.1.6.7.u. & 3.1.6.7.u.(ii).	Compliant	
3.1.6.7.u. & 3.1.6.7.u.(iii).	Compliant	
3.1.6.7.u. & 3.1.6.7.u.(iv).	Compliant	
3.1.6.7.w.(i).	Compliant	
3.1.6.7.w.(ii). & 3.1.6.7.w.(ii).(1)	Compliant	
3.1.6.7.w.(ii). & 3.1.6.7.w.(ii).(2)	Compliant	
3.1.6.7.w.(iii). & 3.1.6.7.w.(iii).(1)	Compliant	
3.1.6.7.w.(iii). & 3.1.6.7.w.(iii).(2)	Compliant	
3.1.6.7.w.(iv). & 3.1.6.7.w.(iv).(1)	Compliant	
3.1.6.7.w.(iv). & 3.1.6.7.w.(iv).(2)	Compliant	
3.1.6.8.a.	Compliant	
3.1.6.8.b.	Compliant	
3.1.6.8.c. & 3.1.6.8.c.(i).	Compliant	
3.1.6.8.c. & 3.1.6.8.c.(ii).	Compliant	
3.1.6.8.c. & 3.1.6.8.c.(iii).	Compliant	
3.1.6.8.d. & 3.1.6.8.d.(i).	Compliant	
3.1.6.8.d. & 3.1.6.8.d.(ii).	Compliant	
3.1.6.8.d. & 3.1.6.8.d.(iii).	Compliant	
3.1.6.8.d. & 3.1.6.8.d.(iv).	Compliant	
3.1.6.8.e.	Compliant	

3.1.6.8.f.	Compliant	
3.1.6.8.g.	Compliant	
3.1.6.8.h.	Compliant	
3.1.6.8.i.	Compliant	
3.1.6.8.j.	Compliant	
3.1.6.8.k.	Compliant	
3.1.6.8.l.	Compliant	
3.1.6.8.m.	Compliant	
3.1.6.8.o.	Compliant	
3.1.6.8.q.	Compliant	
3.1.6.8.r.	Compliant	
3.1.6.8.s.(i).	Compliant	
3.1.6.8.s.(ii).	Compliant	
3.1.6.8.s.(iii).	Compliant	
3.1.6.8.s.(iv).	Compliant	
3.1.6.8.s.(v).	Compliant	
3.1.6.8.s.(vi).	Compliant	
3.1.6.8.s.(vii).	Compliant	
3.1.6.8.s.(viii).	Compliant	
3.1.6.8.s.(ix). & 3.1.6.8.s.(ix).(1.).	Compliant	
3.1.6.8.s.(ix). & 3.1.6.8.s.(ix).(2.).	Compliant	
3.1.8.1	Compliant	
3.1.8.2	Compliant	
3.1.8.3	Compliant	

3.1.8.4	Compliant	
3.1.8.5	Compliant	
3.1.8.6	Compliant	
3.1.8.9 & 3.1.8.9.a	Compliant	
3.1.8.9 & 3.1.8.9.b	Compliant	
3.1.8.9 & 3.1.8.9.c	Compliant	
3.1.8.9 & 3.1.8.9.d	Compliant	
3.1.8.9 & 3.1.8.9.e	Compliant	
3.1.8.10	Compliant	
3.1.8.11	Compliant	
3.1.8.12	Compliant	
3.1.8.13	Compliant	
3.2.1.1. & 3.2.1.1.a.	Compliant	
3.2.1.1. & 3.2.1.1.b.	Compliant	
3.2.1.1. & 3.2.1.1.c.	Compliant	
3.2.1.1. & 3.2.1.1.d.	Compliant	
3.2.1.1. & 3.2.1.1.e.	Compliant	
3.2.1.1. & 3.2.1.1.f.	Compliant	
3.2.1.2 & 3.2.1.2.a.	Compliant	
3.2.1.2 & 3.2.1.2.b.	Compliant	
3.2.1.2 & 3.2.1.2.c.	Compliant	
3.2.1.5.	Compliant	
3.2.1.6.	Compliant	
3.2.1.7.	Compliant	

3.2.2.1. & 3.2.2.1.a.	Compliant	
3.2.2.1. & 3.2.2.1.b.	Compliant	
3.2.2.1. & 3.2.2.1.c.	Compliant	
3.2.2.1. & 3.2.2.1.d.	Compliant	
3.2.2.1. & 3.2.2.2.a.	Compliant	
3.2.2.1. & 3.2.2.2.b.	Compliant	
3.2.2.1. & 3.2.2.2.c. & 3.2.2.2.c.(i).	Compliant	
3.2.2.1. & 3.2.2.2.c. & 3.2.2.2.c.(ii).	Compliant	
3.2.2.1. & 3.2.2.2.c. & 3.2.2.2.c.(iii).	Compliant	
3.2.2.1. & 3.2.2.2.d.	Compliant	
3.2.2.1. & 3.2.2.2.e.	Compliant	
3.2.2.3.	Compliant	
3.2.3.1. & 3.2.3.1.a.	Compliant	
3.2.3.1. & 3.2.3.1.b.	Compliant	
3.2.3.1. & 3.2.3.1.c.	Compliant	
3.2.3.1. & 3.2.3.1.d.	Compliant	
3.2.3.1. & 3.2.3.1.e.	Compliant	
3.2.3.2	Compliant	

Rated Requirements Scoring Matrix

Instructions

a. Compliance Reference. Bidder must provide a reference to the specific report or section of their bid proposal which supports the bidders claim.

b. Performance Specification. Bidder must select from the drop down list the appropriate response to the desirable requirement.

c. Maximum Score. The maximum potential score is the value that may be awarded for a non-mandatory performance specification item.

d. Bidder's Score. The Score is the value that will be assign during bid evaluation.

e. Note. Prorated items will be scored based on a predetermined scoring scale.

Bidder's Name:

System Performance Specification Rated Requirements Scoring Matrix (*Reference to Appendix A1 - System Performance Specification*)				
Fixed TDL GES SPS Para. Number	**Compliance Reference(s)**	**Performance Specification**	**Maximum Score**	**Bidder's Score**
3.1.1.3			10	0
3.1.1.5.e. & 3.1.1.5.e.(i).			5	0
3.1.1.5.e. & 3.1.1.5.e.(ii).			5	0
3.1.1.5.f.		31 or more	10	5
3.1.1.5.j.			8	0
3.1.1.5.k.			10	0
3.1.1.5.l.			10	0

3.1.1.5.m.		5	0
3.1.1.5.n.		5	0
3.1.1.5.w.		8	0
3.1.1.6.e.		15	0
3.1.1.6.i.		6	0
3.1.1.6.j.		6	0
3.1.2.2.		6	0
3.1.2.4.i. & 3.1.2.4.i.(i).		8	0
3.1.2.4.i. & 3.1.2.4.i.(ii).		8	0
3.1.2.4.q.		15	0
3.1.2.4.r.		6	0
3.1.2.5.c		20	0
3.1.2.5.h & 3.1.2.5.h.(i).		6	0
3.1.2.5.h & 3.1.2.5.h.(ii).		6	0
3.1.2.5.j		8	0
3.1.2.5.k		8	0
3.1.2.5.n		15	0
3.1.2.5.o		15	0
3.1.2.5.p		8	0
3.1.2.5.q		6	0
3.1.3.4.e.		6	0
3.1.3.5.c.		10	0
3.1.5.4.		15	0
3.1.6.5		20	0

3.1.6.7.h.			10	0
3.1.6.7.v.			8	0
3.1.6.8.n. & 3.1.6.8.n.(i).			8	0
3.1.6.8.n. & 3.1.6.8.n.(ii).			8	0
3.1.6.8.n. & 3.1.6.8.n.(iii).			8	0
3.1.6.8.p.			5	0
3.1.8.7			8	0
3.1.8.8			8	0
3.1.8.14			20	0
3.2.1.3			32	0
3.2.1.4			6	0
3.3	Evaluated using Annex G - Demonstration Plan	monstration-Scoring-Ma	140	0

Totals	**550**	**5**

State of Readiness Scoring	
State	**Weight**
Desirable Requirement Not Bid	0%
Under Development	0%
Implemented	50%
Operational	100%

Only applies to rated/desirable requirements.

Demonstration Scoring Matrix

Instructions:

a. State of Readiness at Demonstration. The Bidder is required to state the level of readiness at demonstration for their proposed solution as it applies to each requirement.

b. Note. Mandatory requirements default as "Under Development", which is the minimum compliant level. Bidder's must ensure that for each mandatory requirement, the appropriate state of readiness at demonstration for their product is selected in this table, to be awarded technical points on evaluation.

c. Note. Rated/Desirable requirements default as "Desirable Requirement Not Bid", which results in zero technical points. Bidder's must ensure that for each rated/desirable requirement, the appropriate state of readiness at demonstration for their product is selected in this table, to be awarded technical points on evaluation, if they are offering a solution that meets that requirement.

d. Note. The Bidder's selections on this table will be validated by Canada during the Bidder's demonstration.

e. Note. The demonstration requirements are derived from Annex A1 - System Performation Specification, and in certain cases, have been modified slightly for demonstration.

Bidder's Name:

Demo Requirement Number	Description	Fixed TDL GEP SPS Para. Ref. Number	Maximum Available Points	State of Readiness at Demonstration	Demonstration Score	Remarks
Demonstration Scoring Matrix (*Reference to Annex G - Demonstration Plan*)						
1	The selected Bidder must demonstrate the following functionalities under the Remote Crypto Management (RCM) capability:	3.1.1	N/A	N/A	N/A	Statement
1.1	Showing the proof of the RCM is operationally in use with MIDS family, including JTRS, by members of NATO.	3.1.1.1 & 3.1.1.3	8			
1.2	Allowing the operator to establish and maintain the connection, from 2 separate machines, with remote Key loader device (connected to the terminal).	3.1.1.5.b, 3.1.1.5.c, 3.1.1.6.b	8			
1.3.	Loading Black Key into one and two connected MIDS J through the encrypted IP network (using encryption device).	3.1.1.2, 3.1.1.5.d-3.1.1.5.i, 3.1.1.6.a	8			
1.4.	Zeroizing the remote terminal	3.1.1.5.k through 3.1.1.5.m	8			
1.5.	Allowing the operator to configure and monitor the remote Key loader through the web interface.	3.1.1.6.f.	14			
2	The selected Bidder must demonstrate the following functionalities under the Remote Environmental Management (REM) capability:		N/A	N/A	N/A	Statement
2.1	Allowing the operator to remotely configure the environmental conditions thresholds, and monitor the temperature, humidity and unauthorized intrusion status and alerts.	All applicable mandatory and rated requirements	14			

2.2	Zeroizing the terminal automatically and immediately when the unauthorized access event detected.	under the **section** **3.1.2** of SPS for which the Bidder outlined in the proposal and has been awarded technical points.	8			
2.3	Notifying the remote operator on the reception of alerts (visual and audible)		8			
2.4	Allowing the operator to clear the alerts and to set a 'maintenance period' during which the intrusion detector will go on idle mode.		8			
2.5	Allowing for the operator to manually zeroize the remote terminal.		6			
3	The selected Bidder must demonstrate the following functionalities under the Remote J-Voice Monitoring (RJVM) capability:	All applicable mandatory and rated requirements under the **section** **3.1.3** of SPS for which the Bidder outlined in the proposal and has been awarded technical points.	N/A	N/A	N/A	Statement
3.1.	Allowing the operator to select a remote Link-16 terminal and establish the voice communication with other Link-16 unit by J-voice.		8			
3.2.	Allowing the operator to establish the voice communication with the remote site maintainer by using the onsite remote Radio-Ethernet Converter.		8			
3.3.	Allowing the operator to select two remote Link-16 terminals (on different nets) and dispatch the voice communication on separate Link-16 network.		8			
4	The selected Bidder must demonstrate the following functionalities under the Remote Computers Control (RCC) capability:	All applicable mandatory and rated requirements under the **section** **3.1.6** of SPS for	N/A	N/A	N/A	Statement
4.1.	Allowing the operator to use the keyboard, mouse and monitor to interact and control the computers at a remote location through an Ethernet IP network.		8			

4.2.	Allowing the operator to use the keyboard, mouse and monitor to interact and control multiple computers simultaneously at different locations.	which the Bidder outlined in the proposal and has been awarded technical points.	8		
4.3.	Allowing the operator to shut down and turn on the remote computers at different locations through the Ethernet IP network.		10		

Totals	**140**		**0**

ANNEX G

DEMONSTRATION PLAN

FIXED TACTICAL DATA LINK GROUND ENTRY POINT

W8475-235518/001

1. FIXED TDL GEP DEMONSTRATION PLAN

1.1. SCOPE

1.1.1. Purpose

1. The primary purpose of the demonstration is to validate, in person, the readiness of Bidder's proposed solution as outlined in para 3.3 of the Appendix A1 – System Performance Specification.

2. In accordance with RFP's *4.2.2 Financial Evaluation of the Bid* the Bidder with highest preliminary combined rating (technical merit and price), referred in this document as 'selected Bidder', must be ready to demonstrate, within 10 business days of notification of an invitation for demonstration of the claimed capabilities and functionalities.

1.2. DEMONSTRATION

1.2.1. Planning & Preparation

1. The Bidder, as part of their bid submission, must provide a demonstration plan that as a minimum outlines the preferred location, setup, methods, scenarios, equipment and software that will be utilized.

1.2.2. Execution

1. The Selected Bidder must demonstrate the mandatory and rated requirements listed in the **Table 1 - Fixed TDL GEP Demonstration Requirements** at a mutually agreed location.

2. The selected Bidder must complete their demonstration in no more than 3 days.

3. The selected Bidder must perform their demonstration using physical systems onsite. Any form of virtual demonstration (video conference, online meeting, video clips, etc.) from a remote site or location will not be accepted, even for a subset of the demonstrating capability or functionality.

4. Demonstration of the selected capabilities and functionalities is considered to be successful, in this context, when for each of the supporting requirements it is shown one of the following states:

   a. 'Under Development'. A demonstrable requirement is declared in the 'Under Development' state when it's not fully-developed and integrated in an existing product and requires development and integration to bring it to an operational state.

   b. 'Implemented'. A demonstrable requirement is declared in the 'Implemented' state when it's fully-developed and integrated in an existing and functional product that has not been integrated into the final proposed Fixed TDL GEP solution. This can be either third-party product or the bidder's own product that is not currently integrated into a cohesive fully-developed solution, but it must be product that currently exists, and will be integrated as part of the final delivered Fixed TDL GEP solution.

   c. 'Operational'. A demonstrable requirement is declared in the 'Operational' state when it's fully-developed and integrated into the final proposed Fixed TDL GES solution.

d. '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 A-1, System Performance Specification.

Table 1 - Fixed TDL GES Demonstration Requirements

Note. The selected Bidder must demonstrate each capability or functionality in accordance with related mandatory and rated requirements outlined in the Appendix A1 - System Performance Specifications for which the Bidder has been awarded technical points.

Requirement Number	Description	Fixed TDL GEP SPS Para. Ref. Number
1	The selected Bidder must demonstrate the following functionalities under the Remote Crypto Management (RCM) capability:	3.1.1
1.1	Showing the proof of NSA's authorization for use with MIDS family, including JTRS, by members of NATO.	3.1.1.1 & 3.1.1.3
1.2	Allowing the operator to establish and maintain the connection, from 2 separate machines, with remote Key loader device (connected to the terminal).	3.1.1.5.b, 3.1.1.5.c, 3.1.1.6.b
1.3.	Loading Black Key into one and two connected MIDS J through the encrypted IP network (using encryption device).	3.1.1.2, 3.1.1.5.d-3.1.1.5.i, 3.1.1.6.a
1.4.	*Zeroizing* the remote terminal	3.1.1.5.k through 3.1.1.5.m
1.5	Allowing the operator to configure and monitor the remote Key loader through the web interface.	3.1.1.6.f.
2	The selected Bidder must demonstrate the following functionalities under the Remote Environmental Management (REM) capability:	All applicable mandatory and rated requirements under the **section 3.1.2** of SPS for which the Bidder outlined in the proposal and has been awarded technical points.
2.1	Allowing the operator to remotely configure the environmental conditions thresholds, and monitor the temperature, humidity and unauthorized intrusion status and alerts.	
2.2	*Zeroizing* the terminal automatically and immediately when the unauthorized access event detected.	
2.3	Notifying the remote operator on the reception of alerts (visual and audible)	
2.4	Allowing the operator to clear the alerts and to set a 'maintenance period' during which the intrusion detector will go on idle mode.	

Requirement Number	Description	Fixed TDL GEP SPS Para. Ref. Number
2.5	Allowing for the operator to manually *zeroize* the remote terminal.	
3	The selected Bidder must demonstrate the following functionalities under the Remote J-Voice Monitoring (RJVM) capability:	All applicable mandatory and rated requirements under the **section 3.1.3** of SPS for which the Bidder outlined in the proposal and has been awarded technical points.
3.1	Allowing the operator to select a remote Link-16 terminal and establish the voice communication with other Link-16 unit by J-voice.	
3.2	Allowing the operator to establish the voice communication with the remote site maintainer by using the onsite remote Radio-Ethernet Converter.	
3.3	Allowing the operator to select two remote Link-16 terminals (on different nets) and dispatch the voice communication on separate Link-16 network.	
4	The selected Bidder must demonstrate the following functionalities under the Remote Computers Control (RCC) capability:	All applicable mandatory and rated requirements under the **section 3.1.6** of SPS for which the Bidder outlined in the proposal and has been awarded technical points.
4.1	Allowing the operator to use the keyboard, mouse and monitor to interact and control the computers at a remote location through an Ethernet IP network.	
4.2	Allowing the operator to use the keyboard, mouse and monitor to interact and control multiple computers simultaneously at different locations.	
4.3	Allowing the operator to shut down and turn on the remote computers at different locations through the Ethernet IP network.	

ANNEX H

List of Acronyms

FIXED TACTICAL DATA LINK GROUND ENTRY POINT

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This section contains the abbreviations and acronyms used in the documents related to Fixed TDL GEP RFP context.

ADPCM	Adaptive Differential Pulse Code Modulation
BGP	Border Gateway Protocol
C2	Command and Control
CA	Contracting Authority
CADS	Canadian Air Defense Sector headquarters
CAF	Canadian Armed Forces
CDR	Critical Design Review
CDRL	Contract Data Requirement List
CM	Crypto Modernized
CMP	Configuration Management Plan
CMV	Canadian MIDS Variant
CONEMP	Concept of Employment
CONOP	Concept of Operation
CSNI	Consolidated Secret Network Infrastructure
DID	Data Item Description
DND	Department of National Defense
DVI	Digital Visual Interface
EKMS	Electronic Key Management System
F-TDLGES	Fixed TDL GES
FCA	Frequency Clearance Agreement
FAT	Factory Acceptance Test
FIPS	Federal Information Processing Standard Publication
FDC	Final Deliverable Capabilities
GES	Ground Entry Station
GFE	Government Furnished Equipment
GPS	Global Positioning System
GSM	Global System for Mobile Communication
GUI	Graphical User Interface
HDMI	High-Definition Multimedia Interface
ICD	Interface Control Documents
ICES	Interference-Causing Equipment Standard
IGMP	Internet Group Management Protocol
IGRP	Interior Gateway Routing Protocol
IDC	Initial Deliverable Capabilities
IP	Internet Protocol (Communication)
	Intellectual Property (Legal/Law)
ISP	Internet Service Provider
ITE	Information Technology Equipment
JREAP	Joint Range Extension Application Protocol

JTRS	Joint Tactical Radio System
JU	JTIDS/MIDS Unit
KEK	Key-Encryption Key
KIPX	KVM over IP Switch
KVM	Keyboard, Video, Mouse
LAN	Local Area Network
LTR	Local Traffic Router
MIDS	Multifunctional Information Distribution System
MTBF	Mean Time Between Failure
NAT	Network Address Translation
NATO	North Atlantic Treaty Organization
NMEA	National Marine Electronics Association
NORAD	North American Aerospace Defense Command
NSA	National Security Agency
OSPF	Open Shortest Path First
PCM	Pulse Code Modulation
PDR	Preliminary Design Review
PIM	Protocol Independent Multicast
PMP	Project Management Plan
PPLI	Precise Participant Location and Indication
PPS/M/H	Pulse Per Second/Minute/Hour
PRM	Progress Review Meeting
PTT	Push-to-Talk
RAP	Recognized Air Picture
RCAF	Royal Canadian Air Force
RCM	Remote Crypto Management
RCC	Remote Computers Control
RCCS	Remote Computers Control Station
REC	Radio-Ethernet Converter
REM	Remote Environmental Monitoring
RES	Remote Environmental Surveillance
RESM	RES Manager
RIP	Routing Information Protocol
RJVM	Remote J-Voice Monitoring
RKL	Remote Key Loader
RKLM	RKL Manager
RoIP	Radio over IP
RREM	Remote Radio-Ethernet Manager
RSA	Rivest–Shamir–Adleman (cryptographic)
RSCS	Remote Site Configuration Service
RSVP	Resource Reservation Protocol
SOW	Statement of Work

SA	Situational Awareness
SAASM	Selective Availability Anti-Spoofing Module
SATCOM	Satellite Communication
SFP	Small Form-factor Pluggable
SKL	Simple Key Loader
SNMP	Simple Network Management Protocol
SPS	System Performance Specification
SSL	Secure Sockets Layer
TA	Technical Authority
TDL	Tactical Data Link
TIC3	Tactical Integrated Command Control Communications
TLS	Transport Layer Security
UII	Unique Item Identifier
UIN	Unique Identification Number
USB	Universal Serial Bus
VGA	Video Graphics Array
WAN	Wide Area Network
WER	WAN Entry Router

ANNEX I

DND - Task Authorization

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