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## SOLICITATION AMENDMENT MODIFICATION DE L'INVITATION

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

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

### Comments - Commentaires

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<b>Title - Sujet</b> ISSP End User Device Integrated Soldier System End User Device (ISSP-EUD)	
<b>Solicitation No. - N° de l'invitation</b> W8476-226530/A	<b>Amendment No. - N° modif.</b> 003
<b>Client Reference No. - N° de référence du client</b> W8476-226530	<b>Date</b> 2022-09-22
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$QD-030-28783	
<b>File No. - N° de dossier</b> 030qd.W8476-226530	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> Eastern Daylight Saving Time EDT <b>on - le 2022-10-11</b> Heure Avancée de l'Est HAE	
<b>F.O.B. - F.A.B.</b> Specified Herein - Précisé dans les présentes <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input checked="" type="checkbox"/>	
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<b>Signature</b>	<b>Date</b>

This solicitation amendment 003 is raised to incorporate the questions and answers relating to the Request for Proposal, replace Annex A Statement of Work, Annex A Appendix 6 Technical Evaluation Matrix, Annex B Basis of Payment, and extend the RFP closing day to October 11 .

1. The Request for Proposal questions and answers are hereby incorporated into this solicitation amendment:

Id	Question	Answer
25	2.1.1(b) pg. 38 – Will the Government please verify the maximum allowable width of the rugged case? Specifically, does 67mm-75mm represent the full width of all features of the case including impact bumpers?	Dimensions listed on Pg38, 2.1.1(b) reflect the EUD dimensions. Rugged Case dimensions are not identified. Also, in ISS EUD Specs 2.1.1, Rugged case dimensions are excluded from that requirement. Rugged case dimensions must be compatible with the ISS EUD as specified in Rugged case Specs 2.1.1 and 3.1.1.
26	3.1.1 pg. 40, 3.3.1.2 pg. 41 – Will the Government please verify that a USB 3.0 connector (backward compatible with USB 2.0) is acceptable?	Yes, this meets and exceeds the minimum requirement of USB 2.0. DND expects the EUD to be equipped with a USB type c connector. See ISS EUD Specs 3.2.2: “ISS EUD must be equipped with USB type C connector”
27	3.1.4 pg. 41 – Will the Government please verify that Bluetooth version 5 (backward compatible with Bluetooth version 4) is acceptable?	Yes, this meets and exceeds the minimum requirement of Bluetooth version 4.
28	What are the Government’s intentions regarding acquiring training to ensure a smooth implementation in the field?	Rheinmetall Canada Inc. is the integrator and training provider for ISSP. DND expects required documentation; initial training; and support to be provided to Rheinmetall Canada Inc.
29	Par 2.1.1 of the Technical Matrix on (English) PDF pg. 60 (matrix pg. 6 of 37) states, “Dimensions of ISS EUD including with a Rugged Case, must meet and not exceed the following measurement ranges.” This conflicts with par 2.1.1 on PDF pg. 38 (SOW pg. 11 of 27) which states: “Dimensions of ISS EUD must meet and not exceed the following measurement.” Will the Government consider striking, “including with a Rugged Case” from par 2.1.1 on page 6 of 37 of the Technical Matrix?	This is a mistake. Requirement should state “Dimensions of ISS EUD must meet and not exceed the following measurement ranges.”

30	<p>ISS EUD must perform a BIT at the command of the user.</p> <p>Your response states the BIT is the EUD diagnostic tool to run a check-up of the EUD hardware such as: camera, touchscreen, speaker, mic, vibration, sensors, WiFi, bluetooth, battery and USB port</p> <p>Questions in regards to BIT, The team have no idea what the tool does, protocols used or if there is any Android support. Can they get some more information on what it is or what tool Canada is looking for to accomplish this?</p> <p>The initial thought is that some vender had Identified they cannot support this as it seems a bit of a security issue if they allowed a random USB connection to query the state of device peripherals.</p>	<p>A diagnostic application may meet this requirement.</p> <p>The contractor has to demonstrate that there is an existing tool or application, free of charge and accessible, that can run a diagnostic on the EUDs internal hardware.</p> <p>Intention of the BIT is to run diagnostics of the EUD device during maintenance with no sensors or USB peripherals attached. The purpose is to verify EUD internal Hardware without external interference.</p>
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## 2. At Annex A Statement of Work

**Delete:** in its entirety

**Insert:** Annex A Statement of Work, attached.

## 3. At Annex A Appendix 6 Technical Evaluation Matrix

**Delete:** in its entirety

**Insert:** Annex A Appendix 6 Technical Evaluation Matrix, attached

## 4. At Annex B, Basis of Payment

**Delete:** in its entirety

**Insert:** Annex B, Basis of Payment, attached.

**All other terms and conditions remain unchanged.**

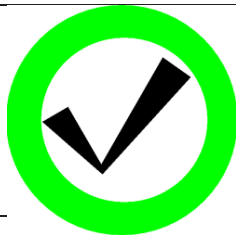


National Défense  
Defence nationale

## **ANNEX A**

### **Statement of Work (SOW)**

#### **For the Acquisition and Support of Integrated Soldier System End User Device (ISS EUD)**



##### **NOTICE**

This documentation has been reviewed by the technical authority and does not contain controlled goods.

##### **AVIS**

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées.

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- Appendix 1: Technical Requirement Specification - ISS EUD
- Appendix 2: Technical Requirement Specification – ISS SMSS
- Appendix 3: Technical Requirement Specification – Rugged Case
- Appendix 4: Technical Requirement Specification – Chest Mount
- Appendix 5: Fluids List

## **1 SCOPE**

### **1.1 Purpose**

- 1.1.1 The purpose of this Statement of Work (SOW) is to specify the requirements for the acquisition and support of a new modern Integrated Soldier System (ISS) End User Device (EUD) and a System Management and Security Suite (SMSS).

### **1.2 Background**

- 1.2.1 The Integrated Soldier System (ISS) is a system in use by the Canadian Armed Forces (CAF) that supports the mission of the dismounted soldier by providing situational awareness and better command execution. The basic configuration of the ISS is composed of an EUD; a radio; a Hub; and battery. The system can expand its operational capabilities by adding additional sensors to the ISS. The EUD is an important component to the ISS, as it provides the dismounted soldier with a battle management system featuring a tactical and visual user interface of the battlefield furthering their situational awareness.

### **1.3 Intended Use**

- 1.3.1 The ISS EUD will be used as part of the Integrated Soldier System and will support the next generation of the Battle Management System (BMS): Android Tactical Assault Kit (ATAK). As it will be worn by dismounted soldiers, the ISS EUD will be exposed to adverse weather and environmental conditions. It will also be subject to various shocks induced from dismounted soldier operations in different environments. It is permissible for the EUD to achieve those compliances through the use of a Rugged Case.
- 1.3.2 The ISS SMSS will be the system management platform of the ISS EUD installed at four (4) different DND locations in Canada. ISS SMSS will be used by an operator to configure and manage the ISS EUD.

### **1.4 List of Acronyms and Abbreviations**

- 1.4.1 Table 1. List of Acronyms

<b>Abbreviation</b>	<b>Description</b>
ABCANZ	American, British, Canadian, Australian, and New Zealand (5 Eyes)
ATAK	Android Tactical Assault Kit
AWR	Additional Work Request
BIT	Built In Test
BMS	Battle Management Software
CAF	Canadian Armed Forces
COTS	Commercial-Off-The-Shelf
DND	Department of National Defence
EMCON	Emission Control
EUD	End User Device
IAW	In Accordance With

Abbreviation	Description
ICD	Interface Control Document
ISS	Integrated Soldier System
ISS EUD	Integrated Soldier System End User Device
ISS-S	Integrated Soldier System Suite
NATO	North Atlantic Treaty Organization
NCAGE	NATO Commercial and Government Entity
NSN	NATO Stock Number
OS	Operating System
(Android) ROM	(Android) Read Only Memory
SMBus	System Management Bus
SMSS	System Management and Security Suite
SOW	Statement of Work
TA	Technical Authority
USB	Universal Serial Bus
WiFi	Wireless Fidelity

## 1.5 Terminology

### 1.5.1 Table 2. Definitions

Term	Definition
Accessory	Include the charger, the USB cable, Rugged Case and Chest mount of the EUD.
Built In Test	An integral capability of a device that provides an on-board test capability to detect, to diagnose, or isolate system failures.
Catastrophic Mishap Severity	Could result in death, permanent total disability, or irreversible or reversible severe environmental damage that violates law or regulation
Compatible	Able to be used together without causing malfunctions or a degradation of performance. Can be used with or without a specific piece of equipment (e.g.: hub, cable, protective case), but without any software or hardware modification to the ISS EUD or the hub.
Critical Mishap Severity	Could result in permanent partial disability, injuries or occupational illness that may result in hospitalization, or reversible environmental damage causing a violation of law or regulation
Defect	A change in materiel characteristics, a Degradation of Performance, a Malfunction, or Physical Damage
Degradation of Performance	A situation where one or more requirements of this Statement of Work is not met.
End User Device	A COTS unlocked smartphone comprising of an operating system, a touchscreen display, and computer processing circuitry.
Hub	A power and data distribution device. Contains multiple ports for connectivity to other devices.



Term	Definition
Integrated Soldier System	A system that aims to improve command execution, target acquisition and situational awareness to soldiers on the battlefield. The basic configuration of the system consists of a radio, a EUD, a Hub, and a battery.
Integrated Soldier System Suite	All equipment that the soldier wears and carries, including the software, electronic equipment, cables, vest and pouches, batteries and any other components.
ISS Battery	UltraLife rechargeable battery UBBL06 (LI-145).
ISS EUD	The next generation of EUD for dismounted soldier to use as a tactical display for situational awareness with embedded ATAK solution as a BMS and tactical security features manageable by the SMSS.
ISS EUD Software	The EUD's custom ROM or OS, firmware, and the SMSS.
ISS Vest	A Modular Load Carriage System for the ISS-S consists of the vest platform, Combat pouches and ISS pouches.
Interface Control Document	Document that describes the interface(s) to a system or subsystem. It may describe the inputs and outputs of a single system or the interface between two systems or subsystems.
Malfunction	A failure in one or more of the following functions or system of ISS EUD : a) Power; b) Data; c) Control of the BMS; d) Control of the EUD; e) Display of the BMS interface; f) Text Entry; g) Touch Screen Interface. h) SMSS.
Non-Operational State	An ISS EUD which has a radio connected, powered down and is not receiving power or data from all connected devices, the BMS and the SMSS.
Operational State	An ISS EUD which is connected to the hub with a battery and a radio, powered by the internal battery, charged by the ISS attery through the Hub, and received power or data from all connected devices and system, including the BMS or the SMSS, with no malfunction or degradation of performance.
Physical Damage	Harm caused to something which results in a degradation of performance.
Port	A connection point on an electronic device where another piece of equipment can be attached, often using a cable.

Term	Definition
Rugged Case	A ruggedized cover for the End User Device
System Management and Security Suite	A mobile device management platform and software suite, running in both the EUD and on premise server as a standalone solution. The software suite provisions, enables and manages the EUD and provides tactical security features on the EUD.
Stylus	A digital pen tool that is used to assist in navigating the End User Device.

## 2 APPLICABLE DOCUMENTS

### 2.1 References

2.1.1 The documents listed in this Section form part of the SOW. Unless otherwise specified, the issue or amendment of documents effective for this contract must be those in effect on the date of contract award.

#### 2.1.2 DND Specifications, Standards and Publications

Reference Number	Promulgation Date	Reference Title
C-01-100-100/AG-005	2019-06-30	Acceptance of Commercial and Foreign Government Publications as Adopted Publications
D-02-002-001/SG-001	2003-04-01	Identification Marking of Canadian Military Property
D-01-400-002/SF-000	2018-07-31	Canadian Forces Specifications – Levels of Engineering Drawings

#### 2.1.3 Other Standards and Publications

Reference Number	Promulgation Date	Reference Title
IEC 60529	2013-08-29	Degrees of protection provided by enclosures (IP Code) <a href="https://webstore.iec.ch/publication/2452">https://webstore.iec.ch/publication/2452</a>
NWPAN-WP-01112013	2017-10-20	Nett Warrior Interconnect Architecture White Paper, version 6, available at <a href="https://apps.dtic.mil/dtic/tr/fulltext/u2/1011122.pdf">https://apps.dtic.mil/dtic/tr/fulltext/u2/1011122.pdf</a>
SMBus	2018-04-19	System Management Bus (SMBus) Specification, available at <a href="http://smbus.org">smbus.org</a>
USB 2.0	2000-04-27	Universal Serial Bus (USB) Revision 2.0 Specifications, available at <a href="http://www.usb.org">www.usb.org</a>
N/A	July 2017	Travel Directive, National Joint Council, available at <a href="http://www.njc-cnm.gc.ca/directive/d10/v238/en">www.njc-cnm.gc.ca/directive/d10/v238/en</a>
MIL-STD-464C	2010-12-01	Interface Standard: Electromagnetic environmental effects requirements for systems, available at <a href="http://everyspec.com/MIL-STD">everyspec.com/MIL-STD</a>

Reference Number	Promulgation Date	Reference Title
MIL-STD-810H	2019-01-31	Test Method Standard: Environmental Engineering Considerations and Laboratory Tests, available at <a href="http://everyspec.com/MIL-STD">everyspec.com/MIL-STD</a>
MIL-STD-1472G	2019-01-17	Design Criteria Standard: Human Engineering, available at <a href="http://everyspec.com/MIL-STD">everyspec.com/MIL-STD</a>

## **2.2 Order of Precedence**

- 2.2.1 In the event of a conflict between the content in this SOW and the referenced documents, the content of this SOW must take precedence.

## **3 REQUIREMENTS**

### **3.1 Scope of Work**

- 3.1.1 The Contractor must supply ISS EUDs, Accessories, Stylus and ISS SMSS that meet all the requirements identified in Appendices 1, 2, 3, 4 and 5. Quantity for each item is specified in section 9.
- 3.1.2 The Contractor must organize a Kick-off meeting.
- 3.1.3 The Contractor must provide Technical Data for ISS EUD, Stylus and Accessories.
- 3.1.4 The Contractor must provide Identification Plates and Product Marking on all EUDs and Accessories. The Contractor must provide a User Manual for the ISS EUD, Accessories, Stylus and ISS SMSS.
- 3.1.5 The Contractor must provide support IAW section 6.

## **4 MEETINGS**

### **4.1 Kick-off Meeting**

- 4.1.1 The Kick-off meeting must take place within twenty-eight (28) working days after contract award (or mutually agreed upon dates). Canada and their designated representatives will participate in the Kick-off meeting. The purpose of this meeting is to review the specific contract documents.

### **4.2 Meeting Minutes**

- 4.2.1 The meeting minutes must be recorded and prepared by the Contractor.
- 4.2.2 The meeting minutes must provide a summary of the discussion and key decision points established during the meeting.
- 4.2.3 Signature blocks for both Contractor and Canada responsible representatives are required on the Kick-off meeting minutes.

- 4.2.4 The meeting minutes must be provided to Canada no later than five (5) working days after the Kick-off meeting.

## **5 INTEGRATED LOGISTIC SUPPORT**

### **5.1 Technical Data**

- 5.1.1 The Technical Data for the ISS EUD and Accessories must clearly provide the following information for all unique item
- a) Item Name;
  - b) The manufacturer's unique part number;
  - c) The Design Control Authority NCAGE code, or their full name and address;
  - d) Dimensions and tolerances;
  - e) Materials;
  - f) Protective coating (if applicable) and surface color and finish;
  - g) Performance data, including the environmental and operating conditions under which the item must perform;
  - h) Electrical characteristics; and
  - i) Special features which contributed to the uniqueness of the item.
- 5.1.2 Canada will provide the Contractor with a list of applicable NSNs as soon as possible after the reception and acceptance of the Technical Data package.
- 5.1.3 Once received from Canada, the Contractor must update all applicable documentation with the NSN identifier.

### **5.2 Equipment Identification Plate Data and Product Marking**

- 5.2.1 The Contractor must provide identification plates and Product Marking for the ISS EUD and all Accessories in accordance with Canadian Forces Standard D-02-002-001/SG-001: Identification Marking of Canadian Military Property.
- 5.2.2 The identification plates and Product Marking must be affixed to ISS EUD, Stylus and all associated accessories.
- 5.2.3 The identification plates and Product Marking must be sent to Canada for approval prior to their production.
- 5.2.4 The Contractor must allow ten (10) working days for the review of the identification plates.

### **5.3 User Manual**

- 5.3.1 User Manual must be in English and in French.
- 5.3.2 User Manual must be in searchable PDF format and be delivered to the Technical Authority.

## **6 ADDITIONAL WORK REQUEST (DND 626)**

### **6.1 Additional Work**

- 6.1.1 There may be a requirement for additional work to be performed. This requirement encompasses work that is over and above the current Contract requirements, but is within the scope of the work. The manner in which this work will be accomplished is via an Additional Work Request (AWR). An AWR will be implemented in accordance with the Contract Articles of Agreement, using the form DND 626 Task Authorization. Pricing will be determined using the rates and mark-ups contained in the Basis of Payment at Annex B.

### **6.2 Travel and Living Expenses**

- 6.2.1 Where the satisfactory performance of approved Additional Work Requests Entails Travel and Living Expenses, the Contractor will be reimbursed for these expenses reasonably and properly incurred in the performance of the Work. The reimbursement will be at cost without allowances for profit and/or administrative overhead. The reimbursement will be in accordance with the Treasury Board Travel Directive or the Contractor's internal policies, whichever is less. The applicable items in the Treasury Board Travel Directive are:
- a) The provisions in the directive referring to "travelers", rather than those referring to "employees"; and
  - b) The meal, private vehicle and incidental expenses provided in Appendices B, C and D.

## **7 QUALITY ASSURANCE**

- 7.1 Contractor must have one or more of the following certifications:
- a) ISO 9001; or
  - b) AS9100D

## **8 ACCEPTANCE PROCESS CRITERIA**

- 8.1 The firm quantity of ISS EUDs, Accessories, Technical Data, and the Interface Control Documents must be delivered to Canada for integration and testing by the ISS Support Contractor, Rheinmetall Canada Inc.

## **9 DELIVERABLES**

See Annex C – Basis of Payment

## **APPENDIX 1 – TECHNICAL REQUIREMENT SPECIFICATION - ISS EUD**

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### **1. GENERAL REQUIREMENTS**

#### **1.1 Non-Developmental Item**

##### **1.1.1 ISS EUD must be:**

- a) Of proven (tested) design and functionalities;
- b) In current production, not obsolete and were produced within the past 12 months;
- c) Be in-use by a ABCANZ member armed forces, or the US Department of National Defence (DOD) Program Executive Office Soldier (PEO) and a quantity greater than 650 units sold to the armed forces;
- d) Provided with Identification marking and Linear Barcode Symbolologies.

#### **1.2 EUD Platform**

##### **1.2.1 ISS EUD must be an Android based Smartphone;**

##### **1.2.2 ISS EUD must run Android 10 or later;**

##### **1.2.3 ISS EUD must be compliant with National Information Assurance Partnership;**

##### **1.2.4 ISS EUD must have security features that meet requirements laid out in section 4.1;**

##### **1.2.5 ISS EUD must be compatible, proven and tested with ATAK 4.5 or later;**

##### **1.2.6 ISS EUD must be compatible with tactical military radios, specifically the L3Harris AN/PRC 163 or RF-9820S.**

##### **1.2.7 ISS EUD must be compatible with the Nett Warrior Interconnect Architecture (NWPAN);**

##### **1.2.8 ISS EUD Software and OS interface must fully support both official languages, French and English.**

### **2. PHYSICAL REQUIREMENTS**

#### **2.1 Device Size**

##### **2.1.1 Dimensions of ISS EUD must meet and not exceed the following measurement:**

- a) Height: 150mm to 165mm or 5.9 in to 6.49 in;
- b) Width: 67mm to 75mm or 2.6 in to 2.95 in; and
- c) Depth: 18mm or 0.70 in.

#### **2.2 Screen Size**

##### **2.2.1 ISS EUD must have a screen dimension range between 157.48 to 169 mm or 6.2" to 6.65" measured diagonally;**

2.2.2 ISS EUD must have a minimum resolution display of 2400x1080 (Width x Height) pixels;

### **2.3 Weight**

2.3.1 The weight of ISS EUD must not exceed 600g or 21.16oz which includes the EUD, the Stylus, the Chest mount and the Rugged Case.

### **2.4 Touch Screen Display**

2.4.1 ISS EUD must include a touch screen interface;

2.4.2 ISS EUD touch screen must be resistant to scratch and hard contact damage;

2.4.3 ISS EUD touch screen must be resistant to drop, up to 1.6 meters;

2.4.4 ISS EUD touch screen must be usable with gloves;

2.4.5 ISS EUD touch screen must be usable with a Stylus;

2.4.6 ISS EUD must be readable in sunlight;

2.4.7 ISS EUD must be readable in low light condition;

2.4.8 ISS EUD must have a control to turn off the display without shutting down the EUD;

2.4.9 ISS EUD must allow the control and display of the BMS;

2.4.10 ISS EUD touch screen must allow the ISS user to interact with the BMS;

2.4.11 ISS EUD display luminance must be adjustable by the user using a control, over the full range of supported luminance levels (i.e. dimmest to brightest) , with one of the following control characteristics:

- a) A control that provides at least five (5) discrete steps; or
- b) An infinitely variable control.

### **2.5 Camera**

2.5.1 ISS EUD must include front and rear cameras;

2.5.2 ISS EUD rear camera must have a minimum of 50MP resolution;

2.5.3 ISS EUD Camera must be used in low light environment, without the use of a flash, to gather intelligence;

2.5.4 ISS EUD must record at least a 3840 x 2160 pixels video;

### **2.6 Finish and Color**

2.6.1 ISS EUD , Accessory and Stylus must meet at least one those finish and color:

- a) Non-reflective flat green finish;
- b) Non-reflective flat black finish;
- c) Non-reflective flat brown finish; or
- d) Non-reflective flat gray finish.

## **2.7 Storage Capacity**

2.7.1 ISS EUD must have a minimum internal storage capacity of 64GB ;

2.7.2 ISS EUD must have extendable storage using a microSD Card and support a minimum of 512MB capacity.

## **2.8 Power and Battery**

2.8.1 ISS EUD must have an internal rechargeable battery with a minimum capacity of 4000 mAh.

## **2.9 Speaker, Microphone and Haptic mode**

2.9.1 ISS EUD must have a built-in microphone and internal speaker;

2.9.2 ISS EUD must have haptic feedback or a vibration feature;

2.9.3 ISS EUD audible noise emissions from the speaker must be able to be disabled by the user;

2.9.4 ISS EUD audible noise emission from the haptic feedback or vibration feature must be able to be disabled by the user;

2.9.5 ISS EUD must have a visual indication on the touch screen interface indicating that audio signals and haptic mode are turned off.

## **2.10 Sensors**

2.10.1 ISS EUD must have the following sensors:

- a) Accelerometer,
- b) Barometer,
- c) Gyro Sensor,
- d) Geomagnetic Sensor,
- e) RGB Light Sensor,
- f) Proximity Sensor.

## **3. INTERFACE REQUIREMENTS**

### **3.1 Network & Connectivity**

3.1.1 ISS EUD must support an USB 2.0 interface;

3.1.2 ISS EUD must have a micro SD expansion slot;



- 3.1.3 ISS EUD must have a WiFi 802.11n a/b/g/n interface which can be enabled and disabled;
- 3.1.4 ISS EUD must have a Bluetooth version 4.0 interface which can be enabled and disabled;
- 3.1.5 ISS EUD must have a dedicated internal GPS which can be enabled and disabled;
- 3.1.6 ISS EUD must support a minimum of three (3) Ethernet interfaces;
- 3.1.7 ISS EUD must be compatible with tactical military radios, specifically the L3Harris AN/PRC 163 or RF-9820S.

### **3.2 Connectors**

- 3.2.1 ISS EUD must be compatible with connectors that mates with the connectors specified in Nett Warrior Interconnect Architecture White Paper (NWPAN-WP-01112013) version 6, Table IV;
- 3.2.2 ISS EUD must be equipped with USB type C connector;
- 3.2.3 ISS EUD must be able to receive power from the ISS Battery.

### **3.3 Ports**

#### **3.3.1 General**

- 3.3.1.1 ISS EUD must operate as the USB host while interfacing with the host port of the Hub;
- 3.3.1.2 ISS EUD data port must be compliant with Universal Serial Bus (USB) Revision 2.0 Specifications or Ethernet;
- 3.3.1.3 ISS EUD must support USB-to-Ethernet devices;
- 3.3.1.4 ISS EUD must support USB host Remote Network Driver Interface Specification (RNDIS).

#### **3.3.2 Power Ports**

- 3.3.2.1 All power ports must be compliant with the System Management Bus (SMBus) Specification;
- 3.3.2.2 ISS EUD must support Programmable Power Supply (PPS) and USB-C Power Delivery (USB PD) specification.

### **3.4 Chest Mount**

- 3.4.1 ISS EUD must be able to be chest mounted on the ISS Vest and be compliant with requirements in Appendix 4.

### **3.5 Stylus**

- 3.5.1 ISS EUD must be compatible with a capacitive or active stylus.
- 3.5.2 The Stylus can be a third party product.
- 3.5.3 In the case the Stylus is a third party product, the OEM must disclose the company name and country of origin of that third party.
- 3.5.4 The Stylus must incorporate means of attachment to Molle Webbing
- 3.5.5 The Stylus must be easily accessible when attached to the ISS Vest.

## **4. FUNCTIONAL REQUIREMENTS**

### **4.1 Security features**

- 4.1.1 ISS EUD must provide an access control mechanism to prevent unauthorized access;
- 4.1.2 ISS EUD must provide user authentication;
- 4.1.3 ISS EUD must use a hardware backed trusted environment;
- 4.1.4 ISS EUD must provide App isolation;
- 4.1.5 ISS EUD must provide data protection (including: data at rest and data in transit protections) from unauthorized access;
- 4.1.6 ISS EUD must provide disk encryption support and data security to protect tactical and sensitive data;
- 4.1.7 ISS EUD must provide runtime protection and encryption;
- 4.1.8 ISS EUD must provide the ability to perform device tracking and locking;
- 4.1.9 ISS EUD must provide the ability for device management, provisioning and deployment through SMSS;
- 4.1.10 ISS EUD must be able to wipe phone data;
- 4.1.11 ISS EUD digital data must be secured when stored in the main data storage as well as on the external data storage;
- 4.1.12 ISS EUD digital data must be secured using both cryptographic encryption and integrity protection;
- 4.1.13 ISS EUD must be manageable through SMSS.

## **4.2 Compatibility**

- 4.2.1 ISS EUD must be Compatible with ISS Radios: L3Harris AN/PRC-163 or RF- 9820S;
- 4.2.2 ISS EUD must be Compatible with ISS Hub: Glenair STARPAN II and STARTPAN VI;
- 4.2.3 ISS EUD must be Compatible with ATAK 4.5 or later;
- 4.2.4 ISS EUD must be Compatible with the Defense Advanced GPS Receiver (DAGR);
- 4.2.5 ISS EUD must be Compatible with Nett Warrior Interconnect Architecture (NWPAN), and;
- 4.2.6 ISS EUD must be Compatible with the SMSS.

## **5. SUSTAINABILITY REQUIREMENTS**

### **5.1 Reliability**

- 5.1.1 ISS EUD must have a Mean Time Between Failure not less than 500 hours.

### **5.2 Built In Test (BIT)**

- 5.2.1 ISS EUD must perform a BIT at the command of the user.

### **5.3 ISS EUD In Service Support**

- 5.3.1 In order to avoid rapidly obsolescence of ISS EUD:
  - 5.3.1.1 ISS EUD Software must be maintained by the OEM for a minimum of 2 years;
  - 5.3.1.2 ISS EUD Software maintenance must include :
    - a) the custom ROM or Android upgrade
    - b) device firmware upgrade and,
    - c) security patch.

## **6. ENVIRONMENT CONDITIONS**

### **6.1 General**

- 6.1.1 ISS EUD must meet IP68 rating to withstand dust, dirt and sand, and are resistant to submersion up to a maximum depth of 1.5m in freshwater for up to thirty minutes;
- 6.1.2 ISS EUD, Accessory and Stylus must meet the requirements defined in Appendix 3;
- 6.1.3 ISS EUD rugged requirements can be met through a Rugged Case.

## **7. HEALTH AND SAFETY**

## **7.1 General**

- 7.1.1 ISS EUD must not present environmental, health or system safety hazards of a Catastrophic or Critical mishap severity;
- 7.1.2 ISS EUD must not present a Catastrophic or Critical hazard to the operator and surrounding environment even when so damaged that it allows the ingress of water, egress of internal substances, or foreign material.

## **7.2 Mechanical Safety**

- 7.2.1 ISS EUD must bear no raw, sharp, or rough edges on any parts.

## **APPENDIX 2 – TECHNICAL REQUIREMENT SPECIFICATION – ISS SMSS**

---

### **1. GENERAL REQUIREMENTS**

#### **1.1 ISS SMSS must be:**

- a) In current production (not obsolete) and have been in production within the past 12 months;
- b) Be in-use by a ABCANZ member armed forces;

#### **1.2 ISS SMSS must be a standalone and on premise solution;**

#### **1.3 ISS SMSS must operate in a close and secure network;**

#### **1.4 ISS SMSS license must not expire;**

#### **1.5 ISS SMSS license must not have any recurring fees for 5 years;**

#### **1.6 ISS SMSS must be able to export settings in order to duplicate SMSS settings/configuration on other sites.**

#### **1.7 ISS SMSS must be able to enroll, provision, configure, secure and manage a set of EUDs including content and applications;**

#### **1.8 ISS SMSS must be able to operate offline (not connected to internet) and import software update and patches using a USB stick;**

#### **1.9 ISS SMSS must be able to push/pull applications, software update and patches to a set of EUDs ;**

#### **1.10 ISS SMSS must be Compatible, proven and tested with latest version of ATAK, TAK Server and WINTAK;**

#### **1.11 ISS SMSS must interface with a set of EUDs using both USB and WiFi interfaces;**

#### **1.12 ISS SMSS must be proven to manage and support at least 10 EUDs;**

#### **1.13 ISS SMSS interface must be in the English language.**

### **2. FUNCTIONAL REQUIREMENTS**

#### **2.1 Platform**

##### **2.1.1 ISS SMSS must be Compatible with the EUD;**

##### **2.1.2 ISS SMSS must manage at minimum Windows 10 and Android 10 devices;**

#### **2.2 Security Management**

## 2.2.1 Interfaces

- 2.2.1.1 The ISS SMSS must restrict users and applications from accessing at minimum hardware and sensors such as:
  - a) Cellular interface
  - b) GPS
  - c) Bluetooth interface
  - d) USB interphase
  - e) Removable Storage;
- 2.2.1.2 The ISS SMSS must restrict users and applications from accessing at minimum native Android services such as:
  - a) Built-in web browser
  - b) Email client
  - c) Calendaring
  - d) Contacts
  - e) Application installation services;
- 2.2.1.3 The ISS SMSS must control all radios/communications on the EUD:
  - a) Cellular (enable/disable)
  - b) WiFi (enable/disable)
  - c) Bluetooth (enable/disable)
  - d) NFC (enable/disable)
  - e) Any other radio/communication interface

## 2.2.2 Data Communication and Storage

- 2.2.2.1 The ISS SMSS must strongly encrypt stored data on both built-in and removable storage;
- 2.2.2.2 The ISS SMSS must provide data protection( including data at rest and data in transit) from unauthorized access;
- 2.2.2.3 The ISS SMSS must have the capacity to remotely wipe the EUD;

## 2.2.3 Application and Content management

- 2.2.3.1 The ISS SMSS must restrict any app store from being used;
- 2.2.3.2 The ISS SMSS must restrict which application may be installed and removed by the user;
- 2.2.3.3 The ISS SMSS must provide App isolation on the EUD;
- 2.2.3.4 The ISS SMSS must keep a current inventory of all applications installed on the EUD;
- 2.2.3.5 The ISS SMSS must restrict the use of Operating system and application synchronization services, such as: local device synchronization, remote synchronization services and websites;

- 2.2.3.6 The ISS SMSS must verify digital signatures on applications to ensure that only applications from trusted entities are installed on the device and the code has not been modified.

#### **2.2.4 User and Device Authentication**

- 2.2.4.1 The ISS SMSS must be able to set and control a maximum number of password attempts on the EUD;
- 2.2.4.2 The ISS SMSS must be able to reset the EUD password or passcode to restore access to the EUD

### **2.3 Hardware**

- 2.3.1 The Contractor must provide all required hardware required for the ISS SMSS
- 2.3.2 The provided hardware must be installed at up to four (4) different DND locations in Canada
- 2.3.3 The provided hardware must be able to run the ISS SMSS platform and the TAK Server
- 2.3.4 The provided hardware must include sufficient USB ports capable of connecting at a minimum: 10 EUDs; and, two (2) Windows tablets similar to the CF-33 Panasonic Toughbook MK2. A USB hub would meet this requirement.
- 2.3.5 The provided hardware must be equipped with a WiFi interface supporting 802.11n a/b/g/n.

## **APPENDIX 3 – TECHNICAL REQUIREMENT SPECIFICATION – RUGGED CASE**

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### **1. GENERAL REQUIREMENTS**

#### **1.1 Non-Developmental Item**

##### **1.1.1 Rugged Case must be:**

- a) Of proven (tested) design; and
- b) In current production or have been in production within the past 12 months;
- c) Be in-use by a ABCANZ member armed forces, or the US Department of National Defence (DOD) Program Executive Office Soldier (PEO) and a quantity greater than 650 units sold to the armed forces;
- d) Provided with Make, Model and Serial Number.

##### **1.1.2 The manufacturer of the Rugged Case must be an official partner of the EUD OEM.**

### **2. PHYSICAL REQUIREMENTS**

#### **2.1 Size**

##### **2.1.1 ISS EUD must fit in the Rugged Case.**

### **3. INTERFACE REQUIREMENTS**

#### **3.1 Interface with EUD**

##### **3.1.1 Each Rugged Case must be compatible with the EUD;**

##### **3.1.2 Each part and accessory of the Rugged Case has the ability to be replaced if broken.**

### **4. FUNCTIONAL REQUIREMENTS**

#### **4.1 EUD Sensors**

##### **4.1.1 The Rugged Case must not reduce performance of these sensors on the EUD:**

- a) Accelerometer;
- b) Barometer;
- c) Gyro Sensor;
- d) Geomagnetic Sensor;
- e) RGB Light Sensor; and
- f) Proximity Sensor.

#### **4.2 EUD ports**

##### **4.2.1 The Rugged Case must have Integrated Ports and buttons which extend native ISS**



EUD ports and buttons.

#### **4.3 Screen protector**

4.3.1 The Rugged Case must include a screen protector

4.3.2 The screen protector must

- a) Allow direct contact with screen and soft-touch button for gloved soldiers.
- b) Have the ability to reduce smudges
- c) Provide impact protection
- d) Have Antiglare

### **5. ENVIRONMENT CONDITIONS**

#### **5.1 General**

5.1.1 Rugged Case must meet all performance requirements of this Technical Requirement Specification without incurring one or more defects during and after exposure to any combination of the meteorological and induced climatic conditions described in this section: Physical Damage, Malfunction, and Degradation of Performance.

#### **5.2 Low Pressure (Altitude)**

5.2.1 Rugged Case must operate without incurring one or more defects during and after being exposed to all altitudes from sea level to 4572 meters.

#### **5.3 High Temperature - Operation**

5.3.1 Rugged Case must operate without incurring one or more defects during and after being exposed to all high temperature environments associated with the A3, A2 and A1 (+49°C max) climatic regions as described in MIL-STD-810H.

#### **5.4 High Temperature - Storage**

5.4.1 Rugged Case must be stored without incurring one or more defects during and after being exposed to all high temperature environments associated with the A3, A2, and A1 climatic regions as described in MIL-STD-810H.

#### **5.5 Low Temperature - Operation**

5.5.1 Rugged Case must operate without incurring one or more defects during and after being exposed to all low temperature environments associated with a C0 and C1 (-30°C min) climatic region as described in MIL-STD-810.

For this requirement, the lower boundary of the C1 climatic region will be evaluated at -30°C.

#### **5.6 Low Temperature - Storage**

- 5.6.1 Rugged Case must be stored without incurring one or more defects during and after being exposed to all low temperature environments associated with a C0 and C1 (-30°C min) climatic region as described in MIL-STD-810.

For this requirement, the lower boundary of the C1 climatic region will be evaluated at -30°C.

## **5.7 Temperature Shock**

- 5.7.1 Rugged Case must operate without incurring one or more defects during and after being exposed to conditions of rapid changes in ambient air temperature as encountered during movements between in-door environments and out-door environments at either high temperature (+49°C) and low temperature (-30°C) extremes.

For this requirement, the Rugged Case did not require any physical modifications or preparations in advance.

## **5.8 Contamination by Fluids**

- 5.8.1 Rugged Case must operate without incurring one or more defects during and after being exposed with the fluids listed in Appendix 6 – Fluids List.

## **5.9 Solar Radiation (Sunshine)**

- 5.9.1 Rugged Case must operate without incurring one or more defects during and after being exposed in all high solar radiation environments associated with A1 and A2 climatic regions as described in MIL-STD-810H.

## **5.10 Rain**

- 5.10.1 Rugged Case must operate without incurring one or more defects during and after being exposed to conditions of rainfall exposure of a minimum 1.7 mm/min as described in MIL-STD-810H.

### **5.11 Humidity**

- 5.11.1 Rugged Case must operate without incurring one or more defects during and after being exposed to all high humidity environments associated with B1, B2 and B3 climatic regions as described in MIL-STD-810H.

### **5.12 Fungus**

- 5.12.1 Rugged Case must not contain materials that support fungus growth.

### **5.13 Salt fog**

- 5.13.1 Rugged Case must operate without incurring one or more defects during and after being exposed to a salt fog atmosphere.

### **5.14 Sand and Dust**

- 5.14.1 Rugged Case must operate without incurring one or more defects during and after being exposed to a blowing sand and dust environment.

### **5.15 Explosive Atmosphere**

- 5.15.1 Rugged Case must not constitute a hazard in an explosive environment.

### **5.16 Water Immersion**

- 5.16.1 During and after a water immersion of one (1) meter depth for a minimum of 30 minutes, the Rugged Case must:
  - a) Not allow water or moisture ingress; and
  - b) Operate without incurring one or more defects.

### **5.17 Vibration**

- 5.17.1 Rugged Case must operate without incurring one or more defects after and during being exposed to vibrations of military ground vehicles.

### **5.18 Functional Shock**

- 5.18.1 Rugged Case must operate without incurring one or more defects during and after being exposed to shocks associated with dismounted soldier operations.

### **5.19 Transit Drop**

- 5.19.1 Rugged Case must operate without incurring one or more defects during and after experiencing 1.22m drops.

### **5.20 Electric field, radiated susceptibility**

- 5.20.1 Rugged Case must operate without incurring one or more defects during and after being exposed to an electrical field of 50V/m at frequencies of 2MHz to 18GHz.

#### **5.21 Emission Control (EMCON)**

- 5.21.1 Rugged Case must meet the EMCON requirement from section 5.14 of MIL-STD-464C. Frequencies tested are outside of 225-450MHz frequency range.

#### **5.22 Electrostatic Discharge**

- 5.22.1 Rugged Case must operate without incurring one or more defects during and after being exposed to electrostatic discharges.

### **6. HEALTH AND SAFETY**

#### **6.1 General**

- 6.1.1 Rugged Case must not present environmental, health or system safety hazards of a Catastrophic or Critical mishap severity.
- 6.1.2 Rugged Case must not present a Catastrophic or Critical hazard to the operator and surrounding environment even when so damaged that it allows the ingress of water, egress of internal substances, or foreign material.

#### **6.2 Mechanical Safety**

- 6.2.1 Rugged Case must bear no raw, sharp, or rough edges on any parts.

#### **6.3 Thermal Contact Hazard**

- 6.3.1 The maximum allowable surface contact temperatures for the Rugged Case must be in accordance with MIL-STD-1472G section 5.7.6.9 Thermal contact hazards.

## **APPENDIX 4: TECHNICAL REQUIREMENT SPECIFICATION – CHEST MOUNT**

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### **1 PHYSICAL REQUIREMENTS**

#### **1.1 Size**

- 1.1.1 Dimensions of Chest mount must be compatible with Rugged Case

### **2 INTERFACE REQUIREMENTS**

- 2.1 The Chest mount must incorporate means of attachment to Molle Webbing
- 2.2 The Chest mount must have a heavy duty and adjustable friction hinge.

### **3 ENVIRONMENT CONDITIONS**

#### **3.1 General**

- 3.1.1 All Chest mount must meet all performance requirements in this technical requirement specification without incurring physical damage and without degradation of performance, during and after exposure to any combination of the meteorological and induced climatic conditions described in the technical requirement specification of Rugged Case.

### **4 HEALTH AND SAFETY**

#### **4.1 General**

- 4.1.1 All Chest mount must not present environmental, health or system safety hazards of a Catastrophic or Critical mishap severity.
- 4.1.2 All Chest mount must not present a Catastrophic or Critical hazard to the operator and surrounding environment even when so damaged that it allows the ingress of water, egress of internal substances, or foreign material.

#### **4.2 Mechanical Safety**

- 4.2.1 All Chest mount must bear no raw, sharp, or rough edges on any parts.

#### **4.3 Thermal Hazard**

- 4.3.1 The maximum allowable surface contact temperatures for all Chest mount must be in accordance with MIL-STD-1472G section 5.7.6.9 Thermal contact hazards.

## APPENDIX 5: FLUID LIST

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### 1. LIST OF FLUIDS

#### 1.1 List of fluids below:

- a) Insect repellent (NSN 6840-01-284-3982, Crème, approx 32% Deet);
- b) Degreasing Solvent (MIL-PRF-680B);
- c) Weapon cleaning solvents (MIL-PRF-372D);
- d) Lubricating oil, general purpose (MIL-PRF-32033);
- e) Camouflage cream;
- f) Reactive Skin Decontaminant Lotion (RSDL);
- g) Salt water (real or simulated);
- h) Unleaded gasoline (CAN/CGSB 3.5);
- i) Hydraulic fluid (Mineral oil / petroleum based NATO H-520/NATO H-515);
- j) Kerosene (Commercial fuel CAN/CGSB 3.3);
- k) Automatic Transmission fluid (Dexron III or Allison TES 228);
- l) Lubricant, semi-fluid, automatic weapons (MIL-L-46000);
- m) Lubricating oil, weapons, low temperature (MIL-PRF-14107);
- n) Anti-freeze (A-A-52624A Type I ethylene glycol-based and Type II propylene glycol-based);
- o) Engine oil (MIL-PRF-2104H, 15W40); and
- p) Diesel fuel (On-road CAN/CGSB 3.517).



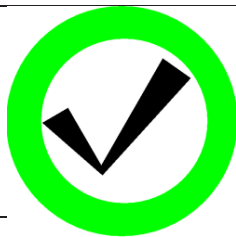
National Défense  
Defence nationale

**Annex A, Appendix 6**

**Technical Evaluation Matrix**

**For the Acquisition and Support of  
Integrated Soldier System End User Device  
(ISS EUD)**

**W8476-226530**



**NOTICE**

This documentation has been reviewed by the technical authority and does not contain controlled goods.

**AVIS**

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées.

## **1 GENERAL**

### **1.1 General Instructions**

- 1.1.1 The Bidder must fill out the Bidder's Compliance and the Bidder Response columns of Annex B, Technical Evaluation Matrix.

### **1.2 List of Acronyms and Abbreviations**

- 1.2.1 Refer to the List of Acronyms and Abbreviations Section in Annex A - Statement of Work.

### **1.3 Terminology**

- 1.3.1 Refer to the Terminology Section in Annex A - Statement of Work.

### **1.4 Applicable Documents**

- 1.4.1 Refer to the Applicable Documents Section in Annex A - Statement of Work.

## **2 MANDATORY REQUIREMENTS**

### **2.1 General**

- 2.1.1 Bidder technical responses must include the information required in the Bidder's Response column for each mandatory requirement according to the method identified in the "Compliance Method" column.

### **2.2 Compliance Methods**

#### **2.2.1 Analysis Report**

- 2.2.1.1 A document that provides evidence that the stated requirements are met. Support for the validation of the Analysis Report's findings must include one or more of the following:

- a) mathematical models;
- b) simulations;
- c) algorithms;
- d) calculations;
- e) charts;
- f) graphs;
- g) drawings;
- h) photos;
- i) dimensions;
- j) representative data,
- k) other scientific principles and procedures.



## 2.2.2 Certificate of Compliance

2.2.2.1 A document that certifies that the product or entity meets a specific standard. The certificate must:

- a) be issued by a qualified Third-Party Testing Facility or Agency; and
- b) contain the following information:
  - i) Name of the Third-Party Testing Facility or Agency; and
  - ii) Certificate number; and
  - iii) Date of issuance; and
  - iv) Name of the entity or the product; and
  - v) Applicable standards, or sections, or methods;

## 2.2.3 Explanation

2.2.3.1 A description which

- a) contains sufficient detail that demonstrates the requirement is met;
- b) is supported by one or more of the following justifications:
  - i) drawings;
  - ii) dimensions;
  - iii) calculations;
  - iv) graphs;
  - v) photos;
  - vi) data sheets;
  - vii) user manuals;
  - viii) description of the product.

Table 1: Bid Evaluation Matrix – ISS EUD

Req. #	Requirement Statement	Method of Compliance	Additional Instructions to Bidder and Evaluation Criteria
<b>SOW 7</b>	<b>QUALITY ASSURANCE</b>		
SOW 7.1	Contractor must have one or more of the following certifications:  a) ISO 9001; or b) AS9100D	Certificate of Compliance	This will be deemed compliant if the certificate or a signed attestation demonstrates that the requirement is met.
<b>ISS EUD Specs 1</b>	<b>General Requirements</b>		
<b>ISS EUD Specs 1.1</b>	<b>Non-Developmental Item</b>		
ISS EUD Specs 1.1.1	ISS EUD must be: a) Of proven (tested) design; b) In current production, not obsolete and were produced within the past 12 months; c) Be in-use by an ABCANZ member armed forces, or the US Department of National Defence (DOD) Program Executive Office Soldier (PEO) and a quantity greater than 650 units sold to the armed forces; d) Provided with Identification marking and Linear Barcode Symbologies.	Explanation	Bidder must provide the following information in their explanation:  a) Model number of the product; b) Confirmation that the product is not obsolete, currently in production and has been within the past 12 months. c) Confirmation that a quantity of the proposed equipment greater than 650 units sold to ABCANZ armed forces members or the US Department of National Defence (DOD) Program Executive Office Soldier (PEO); and d) Identification Plates, Linear Barcode Symbologies or Product Marking.

ISS EUD Specs 1.2	EUD Platform		
ISS EUD Specs 1.2.1	ISS EUD must be an Android based Smartphone	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 1.2.2	ISS EUD must support and run Android 10 or later	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 1.2.3	ISS EUD must be compliant with National Information Assurance Partnership	Certificate of Compliance	This will be deemed compliant if the certificate or a signed attestation demonstrates that the requirement is met.
ISS EUD Specs 1.2.4	ISS EUD must have security software features that meet requirements laid out in section 4.2	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 1.2.5	ISS EUD must be compatible, proven and tested with ATAK 4.5	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 1.2.6	ISS EUD must be compatible with tactical military radios, specifically the L3Harris AN/PRC 163 or RF-9820S.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 1.2.7	ISS EUD must be compatible with the Nett Warrior Interconnect Architecture (NWPAN)	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 1.2.8	ISS EUD Software and OS interface must fully support both official languages: French and English.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS EUD SPECS 2</b>	<b>PHYSICAL REQUIREMENTS</b>		
ISS EUD Specs 2.1	Device Size		

ISS EUD Specs 2.1.1	Dimensions of ISS EUD must meet and not exceed the following measurement ranges : a) Height: 150mm to 165mm or 5.9 in to 6.49 in; b) Width: 67mm to 75mm or 2.6 in to 2.95 in; and c) Depth: 18mm or 0.70 in	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS EUD Specs 2.2</b>	<b>Screen Size</b>		
ISS EUD Specs 2.2.1	ISS EUD must have a screen dimension range between 157.48 to 169mm or 6.2" to 6.65" measured diagonally ;	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 2.2.2	ISS EUD have a minimum resolution display of 2400x1080 (Width x Height) pixels;	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS EUD Specs 2.3</b>	<b>Weight</b>		
ISS EUD Specs 2.3.1	The weight of the ISS EUD must not exceed 600g or 21.16oz which includes the EUD, the Stylus, the chest mount and the Rugged case.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS EUD Specs 2.4</b>	<b>Touch screen Display</b>		
ISS EUD Specs 2.4.1	The EUD must include a touch screen interface	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 2.4.2	The EUD touch screen must be resistant to scratch and hard contact damage	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 2.4.3	The EUD touch screen must be resistant to drop, up to 1.6 meters	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 2.4.4	ISS EUD touch screen must be usable with gloves	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 2.4.5	ISS EUD touchscreen must be usable with Stylus	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.

ISS EUD Specs 2.4.6	ISS EUD must be readable in sunlight	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 2.4.7	ISS EUD must be readable in low light condition	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 2.4.8	ISS EUD must have a control to turn off the display without shutting down the EUD	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 2.4.9	ISS EUD must allow the control and display of the BMS	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 2.4.10	The touch screen must allow the ISS user to interact with the BMS.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 2.4.11	ISS EUD display luminance must be adjustable by the user using a control, over the full range of supported luminance levels (i.e. dimmest to brightest) , with one of the following control characteristics: a) A control that provides at least five (5) discrete steps; or b) An infinitely variable control.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS EUD Specs 2.5</b>	<b>Camera</b>		
ISS EUD Specs 2.5.1	ISS EUD must include front and rear camera	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 2.5.2	ISS EUD rear camera must have a minimum of 50MP resolution	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 2.5.3	ISS EUD Camera must be used in low light environment, without the use of a flash, to gather intelligence.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.

ISS EUD Specs 2.5.4	ISS EUD must record at least a 3840 x 2160 pixels video	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS EUD Specs 2.6</b>	<b>Finish and Color</b>		
ISS EUD Specs 2.6.1	ISS EUD , Accessory and Stylus must meet at least one of these finish and color : a) Non-reflective flat green finish; b) Non-reflective flat black finish; c) Non-reflective flat brown finish; or d) Non-reflective flat gray finish.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS EUD Specs 2.7</b>	<b>Storage Capacity</b>		
ISS EUD Specs 2.7.1	ISS EUD must have a minimum internal storage capacity of 64GB	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 2.7.2	ISS EUD must have extendable storage using a microSD Card and support a minimum of 512MB capacity.	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
<b>ISS EUD Specs 2.8</b>	<b>Power and Battery</b>		
ISS EUD Specs 2.8.1	ISS EUD must have an internal rechargeable battery with a minimum capacity of 4000 mAh.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS EUD Specs 2.9</b>	<b>Speaker, Microphone and Haptic mode</b>		
ISS EUD Specs 2.9.1	ISS EUD must have a built-in microphone and internal speaker.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 2.9.2	ISS EUD must have haptic feedback or a vibration feature.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 2.9.3	ISS EUD audible noise emissions from the speaker must be able to be disabled by the user	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.

ISS EUD Specs 2.9.4	ISS EUD audible noise emission from the haptic feedback or vibration feature must be able to be disabled by the user	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 2.9.5	ISS EUD must have a visual indication on the touch screen interface indicating that audio signals and haptic mode are turned off.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS EUD Specs 2.10</b>	<b>Sensors</b>		
ISS EUD Specs 2.10.1	ISS EUD must have the following sensors: a) Accelerometer, b) Barometer, c) Gyro Sensor, d) Geomagnetic Sensor, e) RGB Light Sensor, f) Proximity Sensor.	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
<b>ISS EUD Specs 3</b>	<b>Interface Requirements</b>		
<b>ISS EUD Specs 3.1</b>	<b>Network &amp; Connectivity</b>		
ISS EUD Specs 3.1.1	ISS EUD must support an USB 2.0 interface ;	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 3.1.2	ISS EUD must have a micro SD expansion slot;	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 3.1.3	ISS EUD must have a WiFi 802.11n a/b/g/n interface which can be enabled and disabled;	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 3.1.4	ISS EUD must have a Bluetooth version 4 interface which can be enabled and disabled;	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 3.1.5	ISS EUD must have a dedicated internal GPS which can be enabled and disabled;	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.

ISS EUD Specs 3.1.6	ISS EUD must support a minimum of three (3) Ethernet interfaces;	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 3.1.7	ISS EUD must be compatible with tactical military radios, specifically the L3Harris AN/PRC 163 or RF-9820S.	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
<b>ISS EUD Specs 3.2</b>	<b>Connectors</b>		
ISS EUD Specs 3.2.1	ISS EUD must be compatible with connectors that mates with the connectors specified in Nett Warrior Interconnect Architecture White Paper (NWPAN-WP-01112013) version 6, Table IV;	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 3.2.2	ISS EUD must be equipped with USB type C connector.	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 3.2.3	ISS EUD must receive power from ISS Battery.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS EUD Specs 3.3</b>	<b>Ports</b>		
<b>ISS EUD Specs 3.3.1</b>	<b>General</b>		
ISS EUD Specs 3.3.1.1	ISS EUD must operate as the USB host while interfacing with the host port of the Hub	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 3.3.1.2	ISS EUD data port must be compliant with Universal Serial Bus (USB) Revision 2.0 Specifications or Ethernet	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 3.3.1.3	ISS EUD must support USB-to-Ethernet devices.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 3.3.1.4	ISS EUD must support USB host Remote Network Driver Interface Specification (RNDIS).	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS EUD Specs 3.3.2</b>	<b>Power Ports</b>		



ISS EUD Specs 3.3.2.1	All power ports must be compliant with the System Management Bus (SMBus) Specification.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 3.3.2.2	ISS EUD must support Programmable Power Supply (PPS) and USB-C Power Delivery (USB PD) specification.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS EUD Specs 3.4</b>	<b>Chest Mount</b>		
ISS EUD Specs 3.4.1	ISS EUD must be able to be chest mounted on the ISS vest and be compliant with requirements in Appendix 4.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS EUD Specs 3.5</b>	<b>Stylus</b>		
ISS EUD Specs 3.5.1	ISS EUD must be provided with a capacitive or active stylus	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 3.5.2	The Stylus can be a third party product.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 3.5.3	In the case the Stylus is a third party product, the OEM must disclose the company name and country of origin of that third party.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 3.5.4	The Stylus must incorporate means of attachment to Molle Webbing	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 3.5.5	The Stylus must be easily accessible when attached to the ISS Vest	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS EUD Specs 4</b>	<b>FUNCTIONAL Requirements</b>		
<b>ISS EUD Specs 4.1</b>	<b>Security features</b>		
ISS EUD Specs 4.1.1	ISS EUD must provide an access control mechanism to prevent unauthorized access.	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 4.1.2	ISS EUD must provide user authentication.	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.

ISS EUD Specs 4.1.3	ISS EUD must use a hardware backed trusted environment.	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 4.1.4	ISS EUD must provide App isolation	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 4.1.5	ISS EUD must provide data protection (including: data at rest and data in transit) from unauthorized access.	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 4.1.6	ISS EUD must provide disk encryption support and data security to protect tactical and sensitive data.	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 4.1.7	ISS EUD must provide runtime protection and encryption.	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 4.1.8	ISS EUD must provide the ability to perform device tracking and locking.	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 4.1.9	ISS EUD must provide the ability for device management, provisioning and deployment through SMSS	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 4.1.10	ISS EUD ISS EUD must be able to wipe phone data.	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 4.1.11	ISS EUD digital data must be secured when stored in the main data storage as well as on the External data storage.	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.

ISS EUD Specs 4.1.12	ISS EUD digital data must be secured using both cryptographic encryption and integrity protection.	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 4.1.13	ISS EUD must be manageable through SMSS.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS EUD Specs 4.2</b>	<b>Compatibility</b>		
ISS EUD Specs 4.2.1	ISS EUD must be Compatible with ISS Radios: Harris AN/PRC-163 or RF 9820S;	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 4.2.2	ISS EUD must be Compatible with ISS Hub: Glenair STARPAN II and STARPAN VI;	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 4.2.3	ISS EUD must be Compatible with ATAK 4.5 or later.	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 4.2.4	ISS EUD must be Compatible with the Defense Advanced GPS Receiver (DAGR);	Explanation	Bidder must submit a technical datasheet, product specification, brochure, or other documentary evidence that demonstrates the compliance of the requirement.
ISS EUD Specs 4.2.5	ISS EUD must be Compatible with Nett Warrior Interconnect Architecture (NWPAN)	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 4.2.6	ISS EUD must be Compatible with the SMSS.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS EUD Specs 5</b>	<b>SUSTAINABILITY REQUIREMENTS</b>		
<b>ISS EUD Specs 5.1</b>	<b>Reliability</b>		
ISS EUD Specs 5.1.1	ISS EUD must have a Mean Time Between Failure not less than 500 hours.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.

<b>ISS EUD Specs 5.2</b>	<b>Built In Test (BIT)</b>		
ISS EUD Specs 5.2.1	ISS EUD must perform a BIT at the command of the user.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS EUD Specs 5.3</b>	<b>ISS EUD In Service Support</b>		
ISS EUD Specs 5.3.1	In order to avoid rapidly obsolescence of the ISS EUD:		
ISS EUD Specs 5.3.1.1	ISS EUD Software must be maintained by the OEM for a minimum of 2 years;	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 5.3.1.2	ISS EUD software Software maintenance must include : a) the custom ROM or Android upgrade, b) device firmware upgrade and, c) security patches.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS EUD Specs 6</b>	<b>Environment Conditions</b>		
<b>ISS EUD Specs 6.1</b>	<b>General</b>		
ISS EUD Specs 6.1.1	ISS EUD must meet IP68 rating to withstand dust, dirt and sand, and are resistant to submersion up to a maximum depth of 1.5m in freshwater for up to thirty minutes.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 6.1.2	ISS EUD must meet the requirements defined in Appendix 3.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 6.1.3	ISS EUD rugged requirements can be met through a Rugged case.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS EUD Specs 7</b>	<b>HEALTH AND SAFETY</b>		
<b>ISS EUD Specs 7.1</b>	<b>General</b>		

ISS EUD Specs 7.1.1	ISS EUD must not present environmental, health or system safety hazards of a Catastrophic or Critical mishap severity.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS EUD Specs 7.1.2	ISS EUD must not present a Catastrophic or Critical hazard to the operator and surrounding environment even when so damaged that it allows the ingress of water, egress of internal substances, or foreign material.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS EUD Specs 7.2</b>	<b>Mechanical Safety</b>		
ISS EUD Specs 7.2.1	ISS EUD must bear no raw, sharp, or rough edges on any parts.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.

Table 2: Bid Evaluation Matrix – ISS SMSS

Req. #	Requirement Statement	Method of Compliance	
<b>ISS SMSS Specs 1</b>	<b>GENERAL REQUIREMENTS</b>		
ISS SMSS Specs 1.1	ISS SMSS must be:  a) In current production (not obsolete) and have been in production within the past 12 months; b) Be in-use by a ABCANZ member armed forces;	Explanation	Bidder must provide the following information in their Explanation:  a) Confirmation that the product is currently in production and has been within the past 12 months; b) The solution is currently in use by a ABCANZ member armed forces.
ISS SMSS Specs 1.2	ISS SMSS must be a standalone and on premise solution;	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 1.3	ISS SMSS must operate in a close and secure network;	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 1.4	ISS SMSS license must not expire	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 1.5	ISS SMSS license must not have any recurring fees for 5 years	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 1.6	ISS SMSS must be able to export settings in order to duplicate SMSS settings/configuration on other sites.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.

Req. #	Requirement Statement	Method of Compliance	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 1.7	ISS SMSS must be able to enroll, provision, configure, secure and manage a set of EUDs including content and applications	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 1.8	ISS SMSS must be able to operate offline (not connected to internet) and import software update and patches using a USB stick	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 1.9	ISS SMSS must be able to push/pull applications, software update and patches to a set of EUDs	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 1.10	ISS SMSS must be Compatible, proven and tested with latest version of ATAK , TAK Server and WINTAK	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 1.11	ISS SMSS must interface with a set of EUDs using both USB and WiFi interfaces	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 1.12	ISS SMSS must be proven to manage and support at least 10 EUDs	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 1.13	ISS SMSS interface must be in the English language	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS SMSS Specs 2</b>	<b>FUNCTIONAL REQUIREMENTS</b>		
<b>ISS SMSS Specs 2.1</b>	<b>Platform</b>		

Req. #	Requirement Statement	Method of Compliance	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 2.1.1	ISS SMSS must be Compatible with the EUD	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 2.1.2	ISS SMSS must manage at minimum Windows 10 and Android 10 devices	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS SMSS Specs 2.2</b>	<b>Security Management</b>		
ISS SMSS Specs 2.2.1	<b>Interfaces</b>	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 2.2.1.1	The ISS SMSS must restrict users and applications from accessing at minimum hardware and sensors such as: a) Cellular interface b) GPS c) Bluetooth interface d) USB interphase e) Removable Storage	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 2.2.1.2	The ISS SMSS must restrict users and applications from accessing at minimum native Android services such as: a) Built-in web browser b) Email client c) Calendaring d) Contacts e) Application installation services;	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 2.2.1.3	The ISS SMSS must control all radios/communications on the EUD: a) Cellular (enable/disable) b) WiFi (enable/disable) c) Bluetooth (enable/disable) d) NFC (enable/disable) e) Any other radio/communication interface.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.



Req. #	Requirement Statement	Method of Compliance	
ISS SMSS Specs 2.2.2	<b>Data Communication and Storage</b>		
ISS SMSS Specs 2.2.2.1	The ISS SMSS must strongly encrypt stored data on both built-in and removable storage	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 2.2.2.2	The ISS SMSS must provide data protection( including data at rest and data in transit) from unauthorized access	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 2.2.2.3	The ISS SMSS must have the capacity to remotely wipe the EUD	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 2.2.3	<b>Application and Content management</b>		
ISS SMSS Specs 2.2.3.1	The ISS SMSS must restrict any app store from being used	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 2.2.3.2	The ISS SMSS must restrict which application may be installed and removed by the user	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 2.2.3.3	The ISS SMSS must provide App isolation on the EUD	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 2.2.3.4	The ISS SMSS must keep a current inventory of all applications installed on the EUD	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 2.2.3.5	The ISS SMSS must restrict the use of Operating system and application synchronization services, such as: local device synchronization, remote synchronization services and websites	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.

Req. #	Requirement Statement	Method of Compliance	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 2.2.3.6	The ISS SMSS must verify digital signatures on applications to ensure that only applications from trusted entities are installed on the device and the code has not been modified		
ISS SMSS Specs 2.2.4	<b>User and Device Authentication</b>		
ISS SMSS Specs 2.2.4.1	The ISS SMSS must be able to set and control a maximum number of password attempts on the EUD	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 2.2.4.2	The ISS SMSS must be able to reset the EUD password or passcode to restore access to the EUD.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>ISS SMSS Specs 2.3</b>	<b>Hardware</b>		
ISS SMSS Specs 2.3.1	The Contractor must provide all required hardware required for the ISS SMSS	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 2.3.2	The provided hardware must be installed at up to four (4) different DND locations in Canada	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 2.3.3	The provided hardware must be able to run the ISS SMSS platform and the TAK Server	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 2.3.4	The provided hardware must include sufficient USB ports capable of connecting at a minimum ten (10) EUDs; and, two (2) Windows tablets similar to the CF-33 Panasonic Toughbook MK2. A USB hub would meet this requirement.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS SMSS Specs 2.3.5	The provided hardware must be equipped with a WiFi interface supporting 802.11n a/b/g/n	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.

Table 3: Bid Evaluation Matrix – Rugged Case

Req. #	Requirement Statement	Method of Compliance	Additional Instructions to Bidder and Evaluation Criteria
<b>Rugged case Specs 1</b>	<b>GENERAL REQUIREMENTS</b>		
<b>Rugged case Specs 1.1</b>	<b>Non-Developmental Item</b>		
Rugged case Specs 1.1.1	Rugged case must be:  a) Of proven (tested) design; and b) In current production or have been in production within the past 12 months; and c) Be in-use by a ABCANZ member armed forces, or the US Department of National Defence (DOD) Program Executive Office Soldier (PEO) and a quantity greater than 650 units sold to the armed forces; d) Provide with Make, Model and Serial Number.	Explanation	Bidder must provide the following information in their Explanation:  a) The product must be of proven design; b) Confirmation that the product is currently in production or has been within the past 24 months; c) A quantity of the proposed equipment greater than 650 units sold to ABCANZ armed forces members or the US Department of National Defence (DOD) Program Executive Office Soldier (PEO); and d) Identification and Linear Barcode Symbolologies provided.
Rugged case Specs 1.1.2	The manufacturer of the Rugged case must be an official partner of the EUD OEM.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>Rugged case Specs 2</b>	<b>PHYSICAL REQUIREMENTS</b>		
<b>Rugged case Specs 2.1</b>	<b>Size</b>		
Rugged case Specs 2.1.1	ISS EUD must fit in the Rugged Case.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>Rugged case Specs 3</b>	<b>INTERFACE REQUIREMENTS</b>		
<b>Rugged case Specs 3.1</b>	<b>Interface with EUD</b>		
Rugged case Specs 3.1.1	Each Rugged case must be compatible with the EUD.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
Rugged case Specs 3.1.2	Each part and accessory of the Rugged case has the ability to be replaced if broken.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.

<b>Rugged case Specs 4</b>	<b>FUNCTIONAL REQUIREMENTS</b>			
<b>Rugged case Specs 4.1</b>	<b>EUD Sensors</b>			
Rugged case Specs 4.1.1	The Rugged case must not reduce performance of these sensors on the EUD: a) Accelerometer b) Barometer c) Gyro Sensor d) Geomagnetic Sensor e) RGB Light Sensor f) Proximity Sensor	Explanation		This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>Rugged case Specs 4.2</b>	<b>EUD ports</b>			
Rugged case Specs 4.2.1	Rugged case must have Integrated Ports and buttons which extend native ISS EUD ports and buttons	Explanation		This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>Rugged case Specs 4.3</b>	<b>Screen protector</b>			
Rugged case Specs 4.3.1	The Rugged case must include a Screen Protector	Explanation		This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
Rugged case Specs 4.3.2	The Screen Protector must a) Allow direct contact with screen and soft-touch button for gloved soldiers. b) Have the ability to reduce smudges c) Provide impact protection d) Have Antiglare	Explanation		This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>Rugged case Specs 5</b>	<b>ENVIRONMENT CONDITIONS</b>			
<b>Rugged case Specs 5.1</b>	<b>General</b>			
Rugged case Specs 5.1.1	Rugged case must meet all performance requirements of this Technical Requirement Specification without incurring one or more of the following defects during and after exposure to any combination of the meteorological and induced climatic conditions described in this section: Physical Damage, Malfunction, and Degradation of Performance.	Explanation		This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>Rugged case Specs 5.2</b>	<b>Low Pressure (Altitude)</b>			

Rugged case Specs 5.2.1	Rugged case must operate without incurring one or more defects during and after being exposed to all altitudes from sea level to 4572 meters.	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:  a) Rugged case was tested in an operational state, and IAW MIL-STD-810H, Method 500.6, Procedure II or an equivalent Method and Procedure of MIL-STD-810G; and b) Test Results determined the following for the Rugged case during and after the test: i) no display of any change in material characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.
<b>Rugged case Specs 5.3</b>	<b>High Temperature – Operation</b>		
Rugged case Specs 5.3.1	Rugged case must operate without incurring one or more defects during and after being exposed to all high temperature environments associated with the A3, A2 and A1 (+49°C max) climatic regions as described in MIL-STD-810H.	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:  a) Rugged case was tested in an operational state, and IAW MIL-STD-810H, Method 501.7, Procedure II, or an equivalent Method and Procedure of MIL-STD-810G; and b) Test Results determined the following for the Rugged case during and after the test: i) no display of any change in material characteristics; ii) no evidence of physical damage; and no malfunction or degradation of performance.
<b>Rugged case Specs 5.4</b>	<b>High Temperature - Storage</b>		

Rugged case Specs 5.4.1	Rugged case must be stored without incurring one or more defects during and after being exposed to all high temperature environments associated with the A3, A2, and A1 climatic regions as described in MIL-STD-810H.	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:  a) Rugged case was tested IAW MIL-STD-810H, Method 501.7, Procedure I or an equivalent Method and Procedure of MIL-STD-810G; and b) Test Results determined the following for the Rugged case during and after the test: i) no display of any change in material characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.
<b>Rugged case Specs 5.5</b>	<b>Low Temperature - Operation</b>	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:  a) Rugged case was tested in an operational state, and IAW MIL-STD-810H, Method 502.7, Procedure I or an equivalent Method and Procedure of MIL-STD-810G; and b) Test Results determined the following for the Rugged case during and after the test: i) no display of any change in material characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.
Rugged case Specs 5.5.1	Rugged case must operate without incurring one or more defects during and after being exposed to all low temperature environments associated with a C0 and C1 (-30°C min) climatic region as described in MIL-STD-810.  For this requirement, the lower boundary of the C1 climatic region will be evaluated at -30°C.	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:
<b>Rugged case Specs 5.6</b>	<b>Low Temperature - Storage</b>	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:
Rugged case Specs 5.6.1	Rugged case must be stored without incurring one or more defects during and after being exposed to all low temperature	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:

	environments associated with a C0 and C1 (-30°C min) climatic region as described in MIL-STD-810.  For this requirement, the lower boundary of the C1 climatic region will be evaluated at -30°C.		<p>a) Rugged case was tested IAW MIL-STD-810H, Method 502.7, Procedure II or an equivalent Method and Procedure of MIL-STD-810G; and</p> <p>b) Test Results determined the following for the Rugged case during and after the test:</p> <ul style="list-style-type: none"> <li>i) no display of any change in material characteristics;</li> <li>ii) no evidence of physical damage; and</li> <li>iii) no malfunction or degradation of performance.</li> </ul>
<b>Rugged case Specs 5.7</b> Rugged case Specs 5.7.1	<p><b>Temperature Shock</b></p> <p>Rugged case must operate without incurring one or more defects during and after being exposed to conditions of rapid changes in ambient air temperature as encountered during movements between in-door environments and out-door environments at either high temperature (+49°C) and low temperature (-30°C) extremes.</p> <p>For this requirement, the Rugged case did not require any physical modifications or preparations in advance.</p>	Explanation	<p>This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:</p> <p>a) Rugged case was tested in an operational state, and IAW MIL-STD-810H, Method 503.7, Procedure I-C or Procedure I-D, or an equivalent Method and Procedure of MIL-STD-810G; and</p> <p>b) Test Results determined the following for the Rugged case during and after the test:</p> <ul style="list-style-type: none"> <li>i) no display of any change in material characteristics;</li> <li>ii) no evidence of physical damage; and</li> <li>iii) No malfunction or degradation of performance.</li> </ul>
<b>Rugged case Specs 5.8</b>	<b>Contamination by Fluids</b>		

Rugged case Specs 5.8.1	Rugged case must operate without incurring one or more defects during and after being exposed with the fluids listed in Appendix 5 – Fluids List.	Explanation or Analysis Report	<p><u>Explanation:</u> This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:</p> <p>a) Rugged case was tested with all fluid listed in Appendix 5, and IAW MIL-STD-810H, Method 504.3, using Intermittent Contamination Procedure, or an equivalent Method and Procedure of MIL-STD-810G; and</p> <p>b) Test Results determined the following for the Rugged case during and after the test:</p> <ul style="list-style-type: none"> <li>i) no display of any change in material characteristics;</li> <li>ii) no evidence of physical damage; and</li> <li>iii) no malfunction or degradation of performance.</li> </ul> <p>Or</p> <p><u>Analysis Report:</u> This technical evaluation criterion will be met if the Analysis Report demonstrates that the requirement is met.</p>
<b>Rugged case Specs 5.9</b>	<b>Solar Radiation (Sunshine)</b>		
Rugged case Specs 5.9.1	Rugged case must operate without incurring one or more defects during and after being exposed in all high solar radiation environments associated with A1 and A2 climatic regions as described in MIL-STD-810H.	Explanation or Analysis Report	<p><u>Explanation:</u> This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:</p> <p>a) Rugged case was tested in an operational state, and IAW MIL-STD-810H, Method 505.7 Procedure I, or an equivalent Method and Procedure of MIL-STD-810G;</p> <p>b) A1 climatic conditions were used; and</p> <p>c) Test Results determined the following for the Rugged case during and after the test:</p>



			<p>i) no display of any change in materiel characteristics;  ii) no evidence of physical damage; and  iii) no malfunction or degradation of performance.</p> <p>Or</p> <p><u>Analysis Report:</u>  This technical evaluation criterion will be met if the Analysis Report demonstrates that the requirement is met.</p>		
<b>Rugged case Specs 5.10</b> Rugged case Specs 5.10.1	<b>Rain</b> Rugged case must operate without incurring one or more defects during and after being exposed to conditions of rainfall exposure of a minimum 1.7 mm/min as described in MIL-STD-810H.	Explanation	<p>This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:</p> <p>a) Rugged case was tested in an operational state, and IAW MIL-STD-810H, Method 506.6, Procedure I (Rain and Blowing Rain) or an equivalent Method and Procedure of MIL-STD-810G; and</p> <p>b) Test Results determined the following for the Rugged case during and after the test:</p> <p>i) no display of any change in materiel characteristics;  ii) evidence of physical damage; and  iii) no malfunction or degradation of performance.</p>		
<b>Rugged case Specs 5.11</b> Rugged case Specs 5.11.1	<b>Humidity</b> Rugged case must operate without incurring one or more defects during and after being exposed to all high humidity environments associated with B1, B2 and B3 climatic regions as described in MIL-STD-810H.	Explanation	<p>This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:</p> <p>a) Rugged case was tested in an operational state, and IAW MIL-STD-810H, Method 506.6, Procedure II, (Aggravated) or an equivalent Method and Procedure of MIL-STD-810G;  b) Test Results determined the following for the Rugged case during and after the test:</p>		

				<ul style="list-style-type: none"> <li>i) no display of any change in material characteristics;</li> <li>ii) no evidence of physical damage; and</li> <li>iii) no malfunction or degradation of performance.</li> </ul>
<b>Rugged case Specs 5.12</b>	<b>Fungus</b>			
Rugged case Specs 5.12.1	Rugged case must not contain materials that support fungus growth.	Explanation or Analysis Report	<p><u>Explanation:</u> This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:</p> <ul style="list-style-type: none"> <li>a) Rugged case was tested IAW MIL-STD-810H, Method 508.8 or an equivalent Method and Procedure of MIL-STD-810G.; and</li> <li>b) Test Results determined the following for the Rugged case during and after the test: <ul style="list-style-type: none"> <li>i) no display of any change in material characteristics;</li> <li>ii) no display of fungus;</li> <li>iii) no evidence of physical damage; and</li> <li>iv) no malfunction or degradation of performance.</li> </ul> </li> </ul> <p>Or Analysis Report: This technical evaluation criterion will be met if the Analysis Report demonstrates that the requirement is met.</p>	
<b>Rugged case Specs 5.13</b>	<b>Salt fog</b>			
Rugged case Specs 5.13.1	Rugged case must operate without incurring one or more defects during and after being exposed to a salt fog atmosphere.	Explanation or Analysis Report	<p>This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:</p> <ul style="list-style-type: none"> <li>a) Rugged case was tested in an operational state, and IAW MIL-STD-810H, Method 509.7 or an</li> </ul>	

			<p>equivalent Method and Procedure of MIL-STD-810G; and</p> <p>b) Test Results determined the following for the Rugged case during and after the test:</p> <ul style="list-style-type: none"><li>i) no display of any change in materiel characteristics;</li><li>ii) no display of corrosion;</li><li>iii) no evidence of physical damage; and</li><li>iv) no malfunction or degradation of performance.</li></ul>
<p><b>Rugged case Specs 5.14</b></p> <p>Rugged case Specs 5.14.1</p>	<p><b>Sand and Dust</b></p> <p>Rugged case must operate without incurring one or more defects during and after being exposed to a blowing sand and dust environment.</p>	<p>Explanation</p>	<p>This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:</p> <p><u>Dust:</u></p> <ul style="list-style-type: none"><li>a) Rugged case was tested in an operational state, and IAW MIL-STD-810H Method 510.7 procedure I or an equivalent Method and Procedure of MIL-STD-810G; and</li><li>b) Test Results determined the following for the Rugged case during and after the test:<ul style="list-style-type: none"><li>i) no display of any change in materiel characteristics;</li><li>ii) no evidence of physical damage; and</li><li>iii) no malfunction or degradation of performance.</li></ul></li></ul> <p>And <u>Sand:</u></p> <ul style="list-style-type: none"><li>a) Rugged case was tested in an operational state, and IAW MIL-STD-810H Method 510.7 procedure II or an equivalent Method and Procedure of MIL-STD-810G; and</li></ul>

			<p>b) Test Results determined the following for the Rugged case during and after the test:</p> <ul style="list-style-type: none"> <li>i) no display of any change in material characteristics;</li> <li>ii) no evidence of physical damage; and</li> <li>iii) no malfunction or degradation of performance.</li> </ul>
<p><b>Rugged case Specs 5.15</b> Rugged case Specs 5.15.1</p>	<p><b>Explosive Atmosphere</b> Rugged case must not be hazardous in an explosive environment</p>	<p>Explanation or Analysis Report</p>	<p>Explanation: This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:</p> <ul style="list-style-type: none"> <li>a) Rugged case was tested in an operational state, and IAW MIL-STD-810H, Method 511.7 Procedure I or an equivalent Method and Procedure of MIL-STD-810G;</li> <li>b) All devices were disconnected and reconnected to the Rugged case during the test; and</li> <li>c) Test Results determined the following for the Rugged case during and after the test: <ul style="list-style-type: none"> <li>i) no display of any change in material characteristics;</li> <li>ii) Rugged case does not cause ignition in a fuel-air explosive atmosphere;</li> <li>iii) no evidence of physical damage; and</li> <li>iv) no malfunction or degradation of performance.</li> </ul> </li> </ul> <p>Or <u>Analysis Report:</u> This technical evaluation criterion will be met if the Analysis Report demonstrates that the requirement is met.</p>
<p><b>Rugged case Specs 5.16</b></p>	<p><b>Water Immersion</b></p>		

Rugged case Specs 5.16.1	During and after a water immersion of one (1) meter depth for a minimum of 30 minutes, the Rugged case must: a) Not allow water or moisture ingress; and b) Operate without incurring one or more defects.	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:  a) Rugged case was tested in an operational state, and IAW MIL-STD-810H, Method 512.6 Procedure I (Immersion) or an equivalent Method and Procedure of MIL-STD-810G; and b) Test Results determined the following for the Rugged case during and after the test: i) no display of any change in material characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.
<b>Rugged case Specs 5.17</b> Rugged case Specs 5.17.1	<b>Vibration</b> Rugged case must operate without incurring one or more defects after and during being exposed to vibrations of military ground vehicles.	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:  a) Rugged case tested IAW any of the following Procedures of Method 514.8 in MIL-STD-810H: a. Procedure I, with any of the following vibration profiles: i) Category 4 - Two-wheeled Trailer; or ii) Category 24 - General Minimum Integrity, vibration profile identified in Figure 514.8E-1. b. Procedure II, using a vibration profile described in Category 5 - Truck/trailer; b) Test Results determined the following for the Rugged case during and after the test: i) no display of any change in material characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.

				Equivalent Methods and Procedures of MIL-STD-810G are also accepted.
<b>Rugged case Specs 5.18</b>	<b>Functional Shock</b>			
Rugged case Specs 5.18.1	Rugged case must operate without incurring one or more defects during and after being exposed to shocks associated with dismounted soldier operations.	Explanation		<p>This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:</p> <ul style="list-style-type: none"> <li>a) Rugged case tested in an operational state, and IAW MIL-STD-810H, Method 516.8 Procedure I (Functional Shock) or an equivalent Method and Procedure of MIL-STD-810G; and</li> <li>b) Test Results determined the following for the Rugged case during and after the test: <ul style="list-style-type: none"> <li>i) no display of any change in materiel characteristics;</li> <li>ii) no evidence of physical damage; and</li> <li>iii) no malfunction or degradation of performance.</li> </ul> </li> </ul>
<b>Rugged case Specs 5.19</b>	<b>Transit Drop</b>			
Rugged case Specs 5.19.1	Rugged case must operate without incurring one or more defects during and after experiencing 1.22m drops.	Explanation		<p>This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:</p> <ul style="list-style-type: none"> <li>a) Rugged case was tested IAW MIL-STD-810H, Method 516.8 Procedure IV (Transit Drop) or an equivalent Method and Procedure of MIL-STD-810G;</li> <li>b) Rugged case unpacked and in a non-operational state with no device connected;</li> <li>c) Test Results determined the following for the Rugged case during and after the test: <ul style="list-style-type: none"> <li>i) no display of any change in materiel characteristics;</li> <li>ii) no evidence of physical damage; and</li> <li>iii) no malfunction or degradation of performance.</li> </ul> </li> </ul>

<b>Rugged case Specs 5.20</b> Rugged case Specs 5.20.1	<b>Electric field, radiated susceptibility</b> Rugged case must operate without incurring one or more defects during and after being exposed to an electrical field of 50V/m at frequencies of 2MHz to 18GHz.	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:  a) Test IAW MIL-STD-461G, test RS103 or an equivalent Method and Procedure of MIL-STD-461F; b) Rugged case tested in an operational state; c) Test Results determined the following for the Rugged case during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.
<b>Rugged case Specs 5.21</b> Rugged case Specs 5.21.1	<b>Emission Control (EMCON)</b> Rugged case must meet the EMCON requirement from section 5.14 of MIL-STD-464C. Frequencies tested are outside of 225-450MHz frequency range	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:  a) Test IAW MIL-STD-461G, test RE102 or an equivalent Method and Procedure of MIL-STD-461F; b) Rugged case tested in an operational state; c) Test Results determined the following for the Rugged case during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.
<b>Rugged case Specs 5.22</b>	<b>Electrostatic Discharge</b>		

Rugged case Specs 5.22.1	Rugged case must operate without incurring one or more defects during and after being exposed to electrostatic discharges.	Test Report	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder:  a) Rugged case was tested in an operational state, and IAW any of the following Military Standards: i) MIL STD 1686C, 5.2.2.2, Direct Contact, Operating Equipment, 4000V Hand/Metal HBM test; ii) MIL-STD-461G, test CS118, using a Level 3 Discharge or higher; iii) MIL-STD-464C, section 5.8.4 Electrical and electronic subsystems; b) Rugged case tested in an operational state; c) Test Results determined the following for the Rugged case during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.
<b>Rugged case Specs 6</b>	<b>HEALTH AND SAFETY</b>		
<b>Rugged case Specs 6.1</b>	<b>General</b>		
Rugged case Specs 6.1.1	Rugged case must not present environmental, health or system safety hazards of a Catastrophic or Critical mishap severity.	Analysis Report or Explanation	This technical evaluation criterion will be met if the Analysis Report or the Explanation demonstrates that the requirement is met.
Rugged case Specs 6.1.2	Rugged case must not present a Catastrophic or Critical hazard to the operator and surrounding environment even when so damaged that it allows the ingress of water, egress of internal substances, or foreign material.	Analysis Report or Explanation	This technical evaluation criterion will be met if the Analysis Report or the Explanation demonstrates that the requirement is met.
<b>Rugged case Specs 6.2</b>	<b>Mechanical Safety</b>		
Rugged case Specs 6.2.1	Rugged case must bear no raw, sharp, or rough edges on any parts.	Analysis Report or Explanation	This technical evaluation criterion will be met if the Analysis Report or the Explanation demonstrates that the requirement is met.
<b>Rugged case Specs 6.3</b>	<b>Thermal Contact Hazard</b>		



Rugged case Specs 6.3.1	The maximum allowable surface contact temperatures for the Rugged case must be in accordance with MIL-STD-1472G section 5.7.6.9 Thermal contact hazards.	Analysis Report or Explanation	This technical evaluation criterion will be met if the Analysis Report or the Explanation demonstrates that the requirement is met.
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Table 4: Bid Evaluation Matrix – Chest mount

Req. #	Requirement Statement	Method of Compliance	Additional Instructions to Bidder and Evaluation Criteria
<b>Chest mount Specs 1</b>	<b>PHYSICAL REQUIREMENTS</b>		
<b>Chest mount Specs 1.1</b>	<b>Size</b>		
Chest mount Specs 1.1.1	Dimensions of Chest mount must be compatible with Rugged Case.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>Chest mount Specs 2</b>	<b>INTERFACE REQUIREMENTS</b>		
Chest mount Specs 2.1	The Chest mount must incorporate means of attachment to Molle Webbing	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
Chest mount Specs 2.2	The Chest mount must have a heavy duty and adjustable friction hinge	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
<b>Chest mount Specs 3</b>	<b>ENVIRONMENT CONDITIONS</b>		
<b>Chest mount Specs 3.1</b>	<b>General</b>		
Chest mount Specs 3.1.1	All Chest mount must meet all performance requirements in this technical requirement specification without incurring physical damage and without degradation of performance, during and after exposure to any combination of the meteorological and induced climatic conditions described in the technical requirement specification of Rugged case	Explanation	This technical evaluation criterion will be met if the Explanation confirms that the requirement is met.
<b>Chest mount Specs 4</b>	<b>HEALTH AND SAFETY</b>		
<b>Chest mount Specs 4.1</b>	<b>General</b>		
Chest mount Specs 4.1.1	All Chest mount must not present environmental, health or system safety hazards of a Catastrophic or Critical mishap severity.	Analysis Report or Explanation	This technical evaluation criterion will be met if the Analysis Report or the Explanation demonstrates that the requirement is met.

Chest mount Specs 4.1.2	All Chest mount must not present a Catastrophic or Critical hazard to the operator and surrounding environment even when so damaged that it allows the ingress of water, egress of internal substances, or foreign material.	Analysis Report or Explanation	This technical evaluation criterion will be met if the Analysis Report or the Explanation demonstrates that the requirement is met.
<b>Chest mount Specs 4.2</b>	<b>Mechanical Safety</b>		
Chest mount Specs 4.2.1	All Chest mount must bear no raw, sharp, or rough edges on any parts.	Analysis Report or Explanation	This technical evaluation criterion will be met if the Analysis Report or the Explanation demonstrates that the requirement is met.
<b>Chest mount Specs 4.3</b>	<b>Thermal Hazard</b>		
Chest mount Specs 4.3.1	The maximum allowable surface contact temperatures for all Chest mount must be in accordance with MIL-STD-1472G section 5.7.6.9 Thermal contact hazards.	Analysis Report or Explanation	This technical evaluation criterion will be met if the Analysis Report or the Explanation demonstrates that the requirement is met.

ANNEX B, BASIS OF PAYMENT-TO BE COMPLETED BY BIDDER (Taxes and Customs Duties excluded in all Tables)

FIRM REQUIREMENTS (Table 1 to be completed by Bidder)		Qty	Firm to be delivered 22 weeks after contract award	Extended Price
Table 1	Firm			
1	ISS EUD	1250		\$ -
2	Accessories	1250		\$ -
3	Stylus	30		\$ -
4	ISS SMSS license and Installation	1		\$ -
5	ISS SMSS Hardware	1		\$ -
6	USB Hub	1		\$ -
If blocks,1-4 , must be filled out for Total evaluated price		Total Extended Price		\$ -

OPTIONAL REQUIREMENTS (Table 2 to be completed by Bidder)		Qty (up to)*	Contract Award until Option Year 1	Option Year 1
Table 2	Note: Optional Requirements are not firm orders. Canada may or may not exercise one or all items within this table. The Optional Requirements do not in any way constitute a commitment on behalf of Canada. Canada may exercise the quantities at any time throughout the exercised Optional year.			
1	ISS EUD	2500		\$ -
2	Accessories	2500		\$ -
3	Stylus	3720		\$ -
4	ISS SMSS license and Installation	4		\$ -
5	ISS SMSS Hardware	4		\$ -
6	USB Hub	30		\$ -
If blocks,1-4 , must be filled out for total evaluated price		Total Extended Price		\$ -

Optional Spare Parts Order (Note: Bidders should provide breakdown of parts with their pricing which will be inserted after contract award)		Qty	Pricing before first option period
Table 3	As determined by the Technical Authority after review of recommended spares parts list	TBD	
1			
This table is not evaluated as part of the bid			
Section 3.0 Total:			

Table 4		Labour Category	Level of Effort (A)	Firm Hourly Rate (B)	Total
4.1*		Hour			
4.2*		Hourly rate per labour category			
		Intermediate Engineer	200	\$ -	\$ -
		Junior software developer	200	\$ -	\$ -
		Intermediate Draftsman	200	\$ -	\$ -
		Intermediate Technologist	200	\$ -	\$ -
4.3*		Section 4.0 Total:			\$ -

4.1\* Number of hours (200) used for bid price evaluation only, this does not constitute an obligation of work on behalf of Canada.  
4.2\* Enter the Firm Hourly Rate (B) for each labour category. Multiply the Level of Effort (A) X Firm Hourly Rate (B).  
4.3\* Summation of all totals of section 4.2

**Additional Work Requirements:** Where the satisfactory performance of approved Additional Work Requirements, in accordance with the Resultant Contract Articles of Agreement 6, entails the provision of materials, the Contractor shall be paid actual costs plus a firm material mark-up rate, in percentage, including all overhead and profit, as listed in **Table 5.0** below.

Table 5.0		Material Mark-up	
5.1*		Material Cost	\$150,000.00
5.2*		Material Mark-up Rate	0%
5.3*		Mark-up Total \$	\$ -
5.4*		Section 5.0 Total:	\$ -

5.1\* Material Cost used for bid price comparison only.  
5.2\* Enter the Material Mark-up Rate Percentage.  
5.3\* Calculate the Mark-up Total (section 5.1 X [1 + section 5.2]).  
5.4\* Summation of all items of section 5.3

Table 6.0		Sub contractor Mark-up	
6.1*		Material / Service Cost	\$150,000.00
6.2*		Material / Service Mark-up Rate	0%
6.3*		Mark-up Total \$	\$ -
6.4*		Section 6.0 Total:	\$ -

6.1\* Material / Service Cost used for bid price comparison only.

**Travel and Living Expenses:** Where the satisfactory performance of approved Additional Work Requests entails Travel and Living Expenses, the Contractor will be reimbursed for these expenses reasonably and properly incurred in the performance of the Work. The reimbursement will be at cost without allowances for profit and/or administrative overhead. The reimbursement will be in accordance with the Treasury Board Travel Directive or the Contractor's internal policies, whichever is less. The applicable items in the Treasury Board Travel Directive are:  
a) The provisions in the directive referring to "travellers", rather than those referring to "employees"; and

Total Evaluated Financial Bid price	
Total Table 1 (Equals Total Extended Price)	\$ -
Total Table 2 ( Sum of total Extended Price)	\$ -
Total Table 3	\$ -
Total Table 4	\$ -
Total Table 5	\$ -

Total Table 6	\$	-
Total Evaluated Financial Bid price	\$	-