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Our reference QINETIQ/21/00694

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## Request for Information - Satellite Asset Tracking System

### 1 Request for Information

#### 1.1 Background

1.1.1 This letter covers a Request for Information (RFI) for a study that is being conducted by QinetiQ Group Canada Inc. ("QinetiQ") for the Department of National Defence (DND) concerning considerations for air range modernization. Information is requested from suppliers of associated products or services.

1.1.2 QinetiQ, under contract to DND is currently exploring areas of improvement for Operational Training Infrastructure (OTI) around DND Training sites. In order to progress the program, industry is being invited to provide information of a general nature regarding capability, products and costs for supply of OTI services or products where OTI modernization may be a need or priority.

#### 1.2 Key Notes To Industry

1.2.1 This information request is not a commitment to any current or future contract for services or products on the behalf of Canada, DND or QinetiQ. Neither is it intended to imply any future procurement will take place. It is limited to providing product or service intelligence (whichever may be applicable) to understand if a procurement lifecycle could be readily achieved in the future. Any costs incurred by your organisation in reviewing this request letter, preparing for and providing a response shall be at your sole risk.

1.2.2 Any information provided by any supplier may be shared with Canada and QinetiQ's affiliates for the purposes of the Canadian Range Modernization Study, under DND Contract W6431-19LC01/002/TOR.

1.2.3 Any sharing with Canada of received information from interested parties or clarifications related thereto will be managed by QinetiQ and interested parties are explicitly requested not to contact Canada, including DND and PSPC, directly relative to this request.

1.2.4 QinetiQ may respond to information received with questions to clarify aspects of supplied information.

## 2 Request for Information - Instructions

2.1 Suppliers responding to this request (responders) are asked to provide the following information:

- Business Address;
- Contact Details;
- Short statement stating area of interest;
- Short Statement of scope of potential supply of goods or services;
- Indicative compliance statement against requirement herein.

2.2 Responses to this request should be supplied by email to [Madison.Aubry@qinetiq.ca](mailto:Madison.Aubry@qinetiq.ca) by the 23<sup>rd</sup> March 2021 in order to be considered in the formulation of the study response.

2.3 Responders are requested to provide indicative or typical costs for the supply, installation and expected annual costs for the utilisation of satellite tracking technology, where multiple dead areas on the mobile communications network may exist in the potential operating area. These costs will not be considered binding or an offer of any kind and indications of their basis would greatly assist in meeting the study objectives.

2.4 Responders are also requested to provide a description of the proposed solution, addressing the key requirements in Section 3 below.

## 3 Details of Satellite Asset Tracking Solution

3.1 There may be a requirement to track multiple personnel and vehicles in wide areas of DND estates.

### Functionality

3.2 The solution must allow tracked entities to be grouped by DND site/estate.

3.3 The solution must allow for encrypted and unencrypted tracking of personnel and vehicles.

3.4 The solution must have a high and configurable refresh rate (refresh rate better than every 2 minutes).

3.5 The solution must have minimal latency (less than 1 minute) in the system.

3.6 The solution must have high availability figures for satellite usage.

3.7 Entity position information must be relayable to other DND systems in a common industry protocol.

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- 3.8 The responder should consider the benefits of a cloud-based system to reduce infrastructure overheads.
- 3.9 The solution should allow multiple geo-fencing capability i.e. allow administrators to create, edit and delete multiple geo-fences.
- 3.10 It is desirable that Personnel Tracking Devices have a SOS function.
- 3.11 The solution should have an alert function that can be activated from the control center.
- 3.12 Personnel Tracking devices would need to function for a minimum of 72hrs before recharge.
- 3.13 The status of a tracking device must be obvious to the personnel using it. i.e. that it is functioning correctly.
- 3.14 The tracking device must indicate the state of the battery.
- 3.15 The accuracy of the tracking system must be +/- 1m.
- 3.16 The solution must be tailorable to the customer needs.

### **Support**

- 3.17 It is requested that the response includes any equipment supply, installation and annual subscription prices.
- 3.18 Responders are requested to describe details of any requirement and how they would deliver a service to conduct annual maintenance.

### **Operating Environment**

- 3.19 Tracking devices would need to be able to function in an austere environment:
  - -40°C to +40°C
- 3.20 Tracking devices must be water and sand resistant.
- 3.21 Responders are requested to state the likely Effective Radiated Power (ERP) of their equipment and frequency of operation.

**4 Points of Contact**

4.1 Responders wishing to brief on capability can do so on request to, [kirk.soroka@qinetiq.ca](mailto:kirk.soroka@qinetiq.ca).

4.2 RFI responses should be sent to: [Madison.Aubry@qinetiq.ca](mailto:Madison.Aubry@qinetiq.ca) We thank you in advance for your consideration of this request.

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