



## Solicitation No. T8080-220472

### Advance Contract Award Notice

An ACAN is a public notice indicating to the supplier community that a department or agency intends to award a contract for goods, services or construction to a pre-identified supplier, thereby allowing other suppliers to signal their interest in bidding, by submitting a statement of capabilities. If no supplier submits a statement of capabilities that meets the requirements set out in the ACAN, on or before the closing date stated in the ACAN, the contracting officer may then proceed with the award to the pre-identified supplier.

## 1. TITLE

Five-year subscription to the dynamic Automatic Identification System (AIS) Data Feed.

## 2. BACKGROUND

The Transportation and Economic Analysis (TEA) Directorate is implementing a digital data strategy in support of the multi-year Trade and Transportation Information System (TTIS) and the recently announced Supply Chain Digitalisation initiative. One of the key objectives of these initiatives is to address data gaps and provide support for the routine monitoring of transport network performance through the innovative use of non-traditional sources of transport information. The widespread use of digital sensors promises to revolutionise the way in which Transport Canada and other agencies collect and analyse information on transport modal activity and performance. TC would like to access additional sources of data on travel activity as a complement to its traditional data sources.

One of the current unfilled data gaps is coverage of marine vessel traffic in congested areas in Asia and Europe, especially in proximity to port and coastal regions. Traditional satellite-based Automatic Identification System (S-AIS) traces, which TEA receives under an existing contract with the Canadian Space Agency, are unable to collect ship movements in congested areas leaving a large gap in vessel trajectories. This frustrates the calculation of dwell and transit times of a vessel's true port-to-port origin-destination travel.

Access to a complementary source of ship trace data via so-called vessel or dynamic AIS (D-AIS) will appreciably address these coverage gaps enabling more detailed and complete marine traffic vessel analyses.

Some of the broad functional needs that would profit from access to more timely and complete vessel traffic information are expected to be the following:

- Monitoring and measuring marine shipping lane use and performance, especially in high-traffic areas in Asia and Europe. Analysis of marine network performance along defined shipping lane corridors supports the department's supply chain digital strategy identifying bottlenecks and other vulnerabilities.
- Better knowledge about marine shipping operations by type of vessel and cargo. More complete shipping traces improve knowledge of bulk and container shipping movements and permit fusion of these traces with merchandise trade data (so-called A6/A6A documents) which TEA receives from the Canada Border Services Agency (CBSA).



### 3. DEFINITION OF THE REQUIREMENT

The purpose of this requirement is to obtain available archived data from exactEarth/Spire Maritime's Dynamic/Terrestrial AIS platform and subscribe to a continuous data feed service that it also offers.

### 4. DELIVERABLES

The Contractor must provide a service with the following characteristics:

- 1) An archive of machine-readable data (comma separated values preferred) covering the period January 1, 2021 for Terrestrial AIS, and April 1, 2021 for Dynamic AIS, to the date of contract award
- 2) Data must comprise both Dynamic AIS traces plus available Terrestrial AIS traces for coastal regions in Asia and Europe
- 3) On-demand access for up to three (3) users to a web-based platform for the balance of the fiscal year.
- 4) Ability to connect TC's cloud-based infrastructure (known as eBIDA) to the Contractor's service via an application programming interface (API)
- 5) Technical support information via a manual or on-line resources explaining how to use the service.
- 6) Phone, email, or online technical support for the duration of the subscription.

Upon contract award, the Contractor must deliver a data feed comprising an archive of all available historical data up to the date of contract award and also a live feed to its subscription service until March 31, 2023.

### 5. CRITERIA FOR ASSESSMENT OF THE STATEMENT OF CAPABILITIES (MINIMUM ESSENTIAL REQUIREMENTS)

Any interested supplier must demonstrate by way of a statement of capabilities that its product/equipment/system (as appropriate) meets the following requirements:

1. The supplier must be able to offer Dynamic or Vessel-based Automatic Identification System (D-AIS) ship trace data as a complement to conventional Satellite-based AIS sources (S-AIS);
2. The supplier must be licensed to bundle a D-AIS data feed with an existing Government of Canada S-AIS data feed (currently supplied by exactEarth/Spire under 9F013-180794/001/MTB);
3. The supplier must be able to provide an archive of historical D-AIS ship traces from April 1, 2021 to the present;
4. The supplier must be licensed to provide terrestrial AIS (T-AIS) data in high traffic areas in Asia and Europe as a complement to an existing Government of Canada S-AIS data feed (currently supplied by exactEarth/Spire under 9F013-180794/001/MTB);
5. The supplier must be able to provide on-demand and real-time access to a web-based platform to query and download D-AIS and T-AIS data;



6. The supplier must be able to offer an API to connect said data sources directly and automatically to Transport Canada's secure AZURE cloud environment;
7. The supplier must be able to provide raw D-AIS and T-AIS ship trace data in a comma separated values (CSV) format;
8. The supplier must be able to provide same-day technical support via phone or email.

## **6. APPLICABILITY OF THE TRADE AGREEMENT(S) TO THE PROCUREMENT**

This procurement is subject to the following trade agreements:

- World Trade Organization Agreement on Government Procurement (WTO-AGP)
- Canada-European Union Comprehensive Economic and Trade Agreement (CETA)
- Canadian Free Trade Agreement (CFTA)
- Canada–Chile Free Trade Agreement
- Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP)
- Canada–Colombia Free Trade Agreement, Canada–Honduras Free Trade Agreement
- Canada–Korea Free Trade Agreement
- Canada–Panama Free Trade Agreement
- Canada–Peru Free Trade Agreement
- Canada–Ukraine Free Trade Agreement
- Canada-Honduras Free Trade Agreement
- Canada-United Kingdom Trade Continuity Agreement

## **7. JUSTIFICATION FOR THE PRE-IDENTIFIED SUPPLIER**

ExactEarth/Spire is the sole vendor of Dynamic AIS data that can be added, due to licensing restrictions, to an existing Satellite AIS service.

ExactEarth/Spire has the exclusive license for the vessel-based Dynamic AIS service, and this is the only commercial offering that is licensed to be bundled with Satellite AIS products offered by exactEarth /Spire.

## **8. PERIOD OF THE PROPOSED CONTRACT**

The period of the proposed Contract is from the date of Contract award to March 31, 2023 with the option to extend for four (4) additional one (1) year periods.

## **9. COST ESTIMATE OF THE PROPOSED CONTRACT**

The total estimated value of the contract including all the option years is \$ 701,655 CAD, excluding any applicable taxes.



## **10. TRAVEL REQUIREMENTS**

There will be no travel required for this contract.

## **11. NAME AND ADDRESS OF THE PRE-IDENTIFIED SUPPLIER**

Spire Global Subsidiary Inc.

ExactEarth Ltd.

260 Holiday Inn Drive, Unit B Bldg. 130

Cambridge, Ontario Canada

N3C 4E8

## **12. SUPPLIERS' RIGHT TO SUBMIT A STATEMENT OF CAPABILITIES**

Suppliers who consider themselves fully qualified and available to provide the services described in the ACAN may submit a statement of capabilities in writing to the contact person identified in this notice on or before the closing date of this notice. The statement of capabilities must clearly demonstrate how the supplier meets the advertised requirements.

## **13. DEADLINE FOR SUBMISSION OF THE STATEMENT OF CAPABILITIES**

The closing date and time for accepting statements of capabilities is Jan 09, 2023 at 02:00 p.m. EST.

## **14. INQUIRIES AND STATEMENTS OF CAPABILITIES ARE TO BE DIRECTED BY EMAIL TO:**

Name: Alexander Hmaidan

Title: Procurement Specialist

Transport Canada

Acquisitions Branch

E-mail address: [Alexander.Hmaidan@tc.gc.ca](mailto:Alexander.Hmaidan@tc.gc.ca)