

## i- CALL FOR TENDERS

**Call for Tenders No.:** 20-110475-A

**Title:** 1030/1090 MHz RF model reengineering

**General:** EUROCONTROL\* is an intergovernmental organisation with 41 Member and 2 Comprehensive Agreement States. We are committed to building, together with our partners, a Single European Sky that will deliver the air traffic management (ATM) performance required for the twenty-first century and beyond.

**Technical subject matter:** A monitoring system will be deployed to collect and analyse the data provided by the receivers in order to monitor the usage of 1030/1090 MHz in Europe. The RF Model will be part of the monitoring system. It will enable simulations of 1030/1090 MHz usage at a given point in space, taking into account transmissions of all simulated ground systems and aircraft.

**Main selection, assessment and award criteria:**

TECHNICAL ASSESSMENT CRITERIA	
<p>Experience in software development</p> <p>FIT CRITERION: Example of software development that has been deployed on the cloud, including the development methodology and the security aspect.</p> <p>See Section 3.2 of Technical Specification: <i>REQ-T-3-001 Experience in software development</i></p>	
<p>Experience in modelling 1030/1090 MHz signal propagation</p> <p>FIT CRITERION: Development of a project modelling the propagation of 1030/1090 MHz signal.</p> <p>See Section 3.2 of Technical Specification: <i>REQ-T-3-002 Experience in modelling 1030/1090 MHz signal propagation</i></p>	

\* EUROCONTROL – European Organisation for the Safety of Air Navigation

### SUPPORTING EUROPEAN AVIATION

**Member States:** Albania, Armenia, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Moldova, Monaco, Montenegro, Netherlands, North Macedonia, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine, United Kingdom.



NETWORK  
MANAGER



<p>Experience in development of 1030/1090 MHz RF Model</p> <p>FIT CRITERION: Development of a RF Model simulating the interrogations and replies of surveillance systems and aircraft transponders on 1030 MHz and 1090 MHz, and the transponder occupancy.</p> <p>See Section 3.2 of Technical Specification: <i>REQ-T-3-003 Experience in development of 1030/1090 MHz RF model</i></p>
<p>Experience in geographical representation of simulation results</p> <p>FIT CRITERION: Example of geographical representation similar to what is required in the current project.</p> <p>See Section 3.2 of Technical Specification: <i>REQ-T-3-004 Experience in geographical representation of simulation results</i></p>
Technical description of proposed technical solution
Proposed timetable
Proposed approach to integrate the solution in the EUROCONTROL environment

The economically most advantageous offer will be established in accordance with the following:

For the Technical tender, a weighting of 60% is applied, for the Financial tender, a weighting of 40%.

**Tender closing date:** **16 December 2020** at 15:00 CET

**Point of Contact:** If you wish to receive the Call for Tenders please see the “Important Notice” below and if you have any other related questions, please contact:

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**If this Call for Tenders should interest you, please read the important information below:**

### **IMPORTANT NOTICE**

The full i-Call for Tenders documentation is in electronic format (.pdf).

If you wish to obtain the i-Call for Tenders documentation please read and follow carefully the instructions below:

1. If you are already registered in the EUROCONTROL Supplier Portal, please send an e-mail to the Point of Contact mentioned above to get access to the documentation.
2. If you are not yet registered as a EUROCONTROL supplier, please follow the 3-step process described on the following link: <https://www.eurocontrol.int/portal/supplier-portal>
3. EUROCONTROL accepts no responsibility whatsoever for the completeness, accuracy and/or timeliness of the transmission of the electronic documents (nor for the electronic documents themselves).
4. Submission of tenders shall be made electronically and shall be exclusively made in strict accordance with the instructions given in the tendering documentation.
5. You may:
  - a) print out the documents;
  - b) forward the documents further on a strictly need to know basis (always fully acknowledging the source, i.e. EUROCONTROL), and
  - c) use print-outs of the electronic i-Call for Tenders documents for the submission of tenders (especially the Price Offer Form ref: I-TSF-E).
6. You may not:
  - a) modify, edit and/or change the electronic documents other than to submit the required info and to sign/stamp where required;
  - b) transmit such documents to any third person who has no need to know them;
  - c) post such documents on any private or public website;
  - d) alter the originating source (EUROCONTROL) and or copyright signs etc., and
  - e) transmit the documents without indication of the source.

**An environmental notice:**

With a view to reduce the exponential growth of paper consumption, we would invite you only to print out electronic documents received and/or request paper copies of the price enquiry documentation if you are actually considering to submit a tender.