

i- CALL FOR TENDERS

Call for Tenders No.: 22-440228-A

Title: Provision of technical support for the RVSM Height Monitoring System TMU software

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: The European Regional Monitoring Agency (RMA) is responsible for the technical oversight of aircraft altimetry system performance in European Reduced Vertical Separation Minima airspace (RVSM). The major activity in respect of this specification is monitoring aircraft height keeping performance, taking appropriate action when altimetry system performance thresholds are exceeded.

To date, the technical height monitoring infrastructure consists of 3 EUROCONTROL Height Monitoring Units (HMU) in Europe (Equipment located in 5 countries). These provide the bulk of the data for height keeping performance and technical risk analysis. The central data processing system within the HMU, the Total Vertical Error Monitoring Unit (TMU) processes input plot data to estimate the accuracy of the aircraft altimetry system by comparing the geometric height of the aircraft against the predicted geometric height of the pressure level equal to the assigned flight level of the aircraft. The output of the TMU system is a list of aircraft height keeping performance results for all aircraft meeting minimum track criteria, operating within the coverage of the HMU system. A critical parameter within these results is the estimation of the aircraft's Altimetry System Error (ASE).

The TMU is a unique software system requiring a range of subject proficiencies to maintain and develop. These include geopotential altitude modelling, aircraft tracking algorithms, digital signal processing, data smoothing and real time data processing.

The EUR RMA has conducted feasibility studies to estimate aircraft ASE using aircraft ADS-B transmissions through a modified TMU.

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, Monaco, Montenegro, Netherlands, North Macedonia, Norway, Poland, Portugal, Republic of Moldova, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine, United Kingdom.

Comprehensive Agreement States: Israel, Morocco.

The scope of this 5 years' contract is to provide technical support for the TMU software. Principally this will be to further optimize the TMU software for enhanced processing of ADS-B data for height monitoring purposes and to integrate this software within the EUROCONTROL NM SIAAAM Data Collection, Management and Analysis platform (SDCMA). The SDCMA is a platform which will provide support to the EUROCONTROL NM function to comply with the Implementation Rule IR (EU) 2019/123.

Main selection, assessment and award criteria:

TECHNICAL CAPACITY CRITERIA
The tenderer shall prove appropriate experience in the technical field of height monitoring, tracking algorithms and atmospheric pressure altitude modelling.
TECHNICAL ASSESSMENT CRITERIA
A minimum of 10 years' experience with JAVA, C++ and Visual Basic
A minimum of 10 years' experience with operating systems administration
High proficiency in English
Good communication skills
A minimum of 5 years' experience with appropriate operational concepts (ATM and RVSM)

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

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

Tender closing date: 03-06-2022 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:

CFT Internet Notice I-IN-E via iSourcing Vers.{_UIVersionString}

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.