

i- CALL FOR TENDERS

Call for Tenders No.: 21-110271-A

Title: Development of the EUROCONTROL ADVANCED EMISSION MODEL (AEM) 2.5.6 version

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:

For more than fifteen years now, EUROCONTROL has been developing the Advanced Emissions Model (AEM) to calculate the aircraft emissions, on the basis of the best practices and method. The AEM model has been endorsed by a large number of users and projects, including ICAO, UNFCCC, and many more. First developed as a MS Access based tool, its AEM Kernel version has been deployed in a large number of EUROCONTROL stakeholders, universities and organisations. The current version is composed by a set of standalone C++ executable project (AEM_GUI and AEM_CLI, for GUI and command line run modes), a preparation tool (AEM_GEO) and a dynamic library (AEM_DLL) running on Windows Operating system. The AEM core program is a parser that reads trajectory segment files and calculates a set of pollutants for each segment.

A new generation of dashboards, analysis and monitoring tools is currently under development and would benefit from an integration of AEM functionalities, with increased usability and interoperability.

In this perspective, this call for tenders is for the integration of AEM to other tools and platforms possible, by **creating a Linux version of the current AEM command line tool and a Linux version of the current AEM DLL**

* 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.



version. These new versions of AEM are already listed as potential solutions to enhance dashboards of French Airports and EUROCONTROL traffic analysis tools. They will complement the current set of Aviation Sustainability tools.

Main selection, assessment and award criteria:

| TECHNICAL CAPACITY CRITERIA |
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| The Tenderer shall have the Technical and Professional Capacity to deliver in the area of C++ programming of scientific softwares, code optimisation and performance with sufficiently skilled resources. |
| The tenderer must prove experience in developing aircraft traffic and performance models and tools. |
| The tenderer must prove capacity to work in English |

| TECHNICAL ASSESSMENT CRITERIA |
|--|
| Excellent level in C++ code programming, including performance optimisation, Win/Linux portage, application design |
| C++ scientific software programming |
| English work |
| Aircraft performance and air traffic modelling |
| Overall quality and relevance of the technical offer |

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: 08-09-2021 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.