

i- CALL FOR TENDERS

<u>Call for Tenders No.:</u>	ECTL_SRC_240064
<u>Title:</u>	Simulations supporting implementation of efficient PBN procedures at airports

General:

The EUROCONTROL INF/CNS Navigation Team has launched an activity at the end of 2022 to use flight simulation evaluations and recorded data to facilitate the exploitation of advanced aircraft functions for network benefits. Meanwhile, the Navigation Team has initiated bilateral work with external organisations (airports, ANSPs, States) for the support of PBN implementation in their airspaces and airports. Examples of airports for which the Navigation Team is currently proposing the design and implementation of specific PBN procedures enabling airspace and network benefits are Chisinau (Moldova), Dubrovnik (Croatia), Helsinki (Finland) and Reykjavik (Iceland).

Technical subject matter:

The purpose of this contract is to encode the new procedures proposed for the airports listed above in navigation databases and evaluate the feasibility and benefits of the new procedures. This will be done by a series of flight simulations using aircraft simulator types corresponding to the actual aircraft operating at those airports. As the simulators will be EASA certified level D full motion flight crew training simulators, they will have the characteristics, functions and performance corresponding to the real aircraft. The tests will be performed under different environmental conditions such as temperature and wind, corresponding to the actual environmental conditions at the respective airports. Data will be gathered by means of video recordings, pilot questionnaires and digital data recording of the aircraft flight trajectories for post analysis. The results will be shared with the external organisations (airports, ANSPs, States) working with the EUROCONTROL Navigation Team and will be used as basis for the implementation of the new, flight efficient PBN procedures.

Additionally and in cooperation with the external organisations, general outcomes of the results could be presented to the EUROCONTROL Navigation Steering Group (NSG) and the ICAO PBN Task Force, ICAO groups like the Instrument Flight Procedures Panel (IFPP) and the ICAO Separation and Airspace Safety Panel (SASP) for the promotion of efficient PBN procedures and for the development of international aviation standards, supporting the new procedures.

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, Türkiye, Ukraine, United Kingdom.

Comprehensive Agreement States: Israel, Morocco.

The contractor will assist EUROCONTROL with the provision of flight simulation devices to test the new procedures and the development of supporting aircraft navigation databases containing the new procedures.

Main selection and assessment criteria:

TECHNICAL CAPACITY CRITERIA
Demonstrated capacity to provide EASA certified LEVEL D flight simulator availability with indicated number of sessions for the 5 aircraft types, as detailed in section 3.2 of the Technical Specification.
Capability to provide tailored aircraft navigation databases with specific test procedures for airports including LUKK, LDDU, EFHK, ELLX, BIRK, for the 5 aircraft types as detailed section 3.2 of the Technical Specification.
Capability to provide digital aircraft trajectory and state data recording during all the simulator sessions and in all the offered simulators, as detailed in section 3.2 of the Technical Specification.
Capability to provide video recordings of the flown procedures. The video recordings must contain the Primary Flight Display, Navigation Display and FMS interface plus a professionally recorded cockpit video containing the outside view for promotion purposes, as detailed in section 3.2 of the Technical Specification.
TECHNICAL ASSESSMENT CRITERIA
At least 10 years of experience in aircraft simulation projects whereby high quality digital data is extracted from the simulators. At least 3 reference projects should be provided.
At least 10 years of experience in procedure design and database coding. At least 3 reference projects should be provided.
At least 10 years of experience in post-data analysis of aircraft trajectory and state data to compute along track distance, lateral and vertical deviations and produce high quality graphs. At least 3 reference projects should be provided.
At least 10 years of experience in Air Traffic Management or Air Operations.
Experience in producing high quality reports in English at a level equivalent to at least to C1 as defined in the Common European Framework of Reference (CEFR)

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

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

Tender closing date:

23 August 2024 at 15:00 Brussels time

CFT Internet Notice I-IN-E via iSourcing Vers. 2.13

Point of Contact:

Please see the “Important Notice” below and if you have any other related questions, please contact:

DUPUY, Armelle
DNM/BCS
Email: armelle.dupuy@eurocontrol.int

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, you can search for this Call for Tenders, and its relevant documentation, in the “*View Active Negotiations*” section of the Supplier Portal.
2. If you are not yet registered as a EUROCONTROL supplier, please follow the process described on the following link: <https://www.eurocontrol.int/portal/new-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.