Clarification Note #2

EUSPA internal reference: 263485

Procedure: Call for Expression of Interest for High Accuracy Service Testing

Question #6: We are planning to involve employees who belong to affiliated companies of the legal entity submitting the request. Would it be possible to extend the NDU adding affiliates?

Answer #6: As per Article 2.3 of the Non-Disclosure Undertaking ('NDU'), the Recipient (the person signed the NDU and supplied with the proprietary information) shall only disclose the Proprietary Information to persons inside and outside its organisation if such persons have a proven need to know for the Purpose, as defined in article 1 of the NDU. In such case, the Recipient shall ensure that the persons received this information are bound by provisions equally onerous to this of the NDU and fulfil the conditions of the call before releasing the proprietary information.

Question #7: The information on when the HAS Testing Campaign is foreseen is very important as the GNSS receiver intended to be used might be still under development.

Besides, the capability to decode and process the HAS broadcast corrections will need to be implemented within the selected GNSS receiver according to the ICD provided by EUSPA.

Therefore, an indicative high-level schedule for the test campaign would be very valuable in order to self-assess whether we are in the position to participate to this call.

Would it be possible for EUSPA to provide an indicative timeline information?

Answer #7: The timeline for the test campaign remains to be confirmed. Appropriate information will be provided to selected participants, although it is expected that the tests will take place in the July-September 2021 timeframe, based on several broadcast sessions (specific HAS broadcast periods will be confirmed to the participants). To be noted that participants will not be obliged to support all broadcast sessions.

Question #8: The information on the duration of the HAS Testing Campaign is very important in order to assess whether a non-real-time GNSS software receiver solution could be suitable.

A software receiver solution would provide the required flexibility to quickly implement/adapt the tracking and processing modules for the E6-B component according to the ICD provided by EUSPA.

On the other hand, the non-real-time aspect implies long post-processing and this might become unfeasible for several days of recordings.

Therefore an indicative test campaign duration would be very valuable in order to self-assess whether we are in the position to participate to this call.

Would it be possible for EUSPA to provide an indicative duration information?

Answer #8: Please refer to question#7 for the overall planning aspect. To be noted that, as per answer to question #9 below, EUSPA will not impose the duration of the data processing/performance activities to be run by the selected participants.

Question #9: Will EUSPA provide a test plan for the selected entities, or it will be up to the participants to define the test plan? If the test plan will be defined by the participants, will there be applicable requirements or constraints imposed by EUSPA onto the test plan?

Answer #9: As mentioned in the Call for Expression of Interest, candidates are expected to describe the proposed testing activities which may cover the decoding and processing of the HAS broadcast corrections as well as user performance evaluation activities. Consequently, EUSPA will not impose a test plan or concrete test procedures to be followed by all participants. Nevertheless, as part of the expected iterations between EUSPA and the selected participants, EUSPA may propose adjustments to the testing activities described by the candidates in their expression of interest.

Question #10: Which Galileo satellites will transmit the HAS corrections? For which constellations the precise corrections will be provided by the Galileo High Accuracy Service during the testing phase (Galileo only or Galileo and GPS)? Will all parameters in the HAS SIS ICD be broadcasted or only a sub-set of them?

Answer #10: The HAS corrections will be broadcast in the Galileo E6 signal (E6-B, data component) from a subset of the Galileo satellites which will change over time (not predictable from the user side). Corrections will be provided for Galileo and GPS satellites.

Regarding the completeness of the data (full coverage of the HAS SIS ICD), all the necessary details will be provided to the selected participants. As mentioned in the Call For Expression of Interest, the test campaign "will be supported by a demonstrator which is not fully representative of the future operational service infrastructure". Hence, "under no circumstances the tests performed and results obtained will represent the performance of the final service". Nevertheless, the test set-up will be representative enough to allow an adequate level of functional verification of the HAS SIS ICD and preliminary performance evaluation activities.

Question #11: Are you considering applications that only target performance evaluation (Section 4.3 P.3 in the call document) or is tracking capability a necessary requirement?

Answer #11: The capability to track and process observations and navigation data from the corrected constellations/signals is understood to be necessary for any relevant testing activity (P.1). Similarly, the capability to decode and process the HAS corrections is understood to be necessary (P.2), since no post-processed corrections in a standard format (e.g. SP3) is expected to be provided to the participants (to be noted that the implementation and evaluation of the HAS SIS ICD is one of the primary objectives of the test campaign).

Nevertheless, the Call for Expression of Interests asks the candidates to provide a description of the proposed testing activities in their Expression of Interest. Hence, the participants may propose to focus on a subset of the potential evaluation activities. EUSPA does not intend to impose a specific testing approach as long as meaningful results (see section 3 of the Call for Expression of Interest) can be derived.

Question #12: Is it possible to submit an expression of interest / application in a project team / as a consortium? If so, each individual member of the team signs the NDU, the selection criteria are fulfilled by the team (not by one entity of the team alone) and the work is carried out together sharing the results? Could EUSPA please confirm if this is possible?

Answer #12: We confirm the understanding that the applicant can be a formed as a consortium.

Question #13: In relation to Professional Capacity Criteria P.1 (Capability of tracking and processing), a clarification would be very much appreciated on whether it is mandatory for participants to have their own receivers developments or they can rely on COTS receivers for the purpose of HAS signal tracking and retrieval of raw measurements and HAS broadcast corrections, which would be then processed separately using an external Participant's tool and PPP engine to decode and process the HAS broadcast corrections as per P.2, and to evaluate the HAS performance as per P.3.

Answer #13: The use of COTS receivers may be proposed by the participants (the use of internally developed receivers is not mandatory). Please note that the candidates are expected to describe the proposed approach (including the GNSS receivers to be used) for the testing activities as part of their Expression of Interest as explained in sections 4.3 and 5 of the Call for Expression of Interest.

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