Clarification Note #3

EUSPA internal reference: 304995

Procurement procedure: EUSPA/OP/17/23

Title: 'HADG Infrastructure for HAS Phase 2'

Question #3:

"In the technical requirements document (EUSPA-GAL-SE-REQ-A26620), the performance requirements for the code (e.g. [HADGV2-PERF-00270]) and phase biases accuracy (e.g. [HADGV2-PERF-00280]) refer to section A.3 of the same document in order to define the requirements' evaluation procedure. Section A.3 defines a 2-step approach. The second step includes "Compute the user positioning accuracy using the HAS Phase 1 Reference Algorithm [AD.21][AD.22]". According to the list of applicable documents (table 1-1):

- ***AD.21 is the "Galileo HAS Initial Service Reference User Algorithm", version 1.0.***
- ***AD.22 is the "Galileo HAS Initial Service User Algorithm SW implementation Source Code and Test Vectors", version 1.0.***

Would it be possible to receive AD.21 and AD.22?

In addition, in order to process those ADs and consider the information in the technical proposal, we kindly request to extend the submission deadline."

Answer #3:

Please refer to Corrigendum No. 5: The Applicable Documents AD.21 and AD.22 will be shared with potential bidders having submitted an NDU.

However, the way to compute the HAS PVT solution is just one example as stated in the document EUSPA-GAL-SE-REQ-A26620: "*The Contractor may propose additional methods as long as they are justified and approved by the Contracting Authority*". Hence, no extension of deadline shall be granted beyond the extension already in place by virtue of Corrigendum No. 4.

Question #4:

"In the document HADG Infrastructure for HAS Phase 2 –Statement of Work EUSPA-GAL-GSC-SOW-A26386 Issue/version: 1.0, there is a price requirement:

> ***'3.4.2.2 Calculation of final score of the tender***
>
> ***The financial score will be calculated as follows: the tender offering the least expensive Total Price (including baseline and optional activities)'***

However, there are options that can be exercised multiple times (e.g. Option #3.3 can be activated up to six times). How many times shall be considered for the option price in those cases in terms of final score calculation?"

Answer #4:

EUSPA understands that as there is no reference in the SOW to the relevant section, the question refers to the Tender Specifications.

Please refer to tab "I.G.1 – Total Evaluation price" in "EUSPA-OP-17-23 Annex I.G – Financial Proposal and Cost Sheets" where it is explained how to calculate the Total evaluation contract price.

Question #5:

"Please find below additional questions on SW Infrastructure Virtualization:

- ***What type of virtualization is used for deployment?, containers?, What types of containers?, Docker, CRI-O, Podman, or others?***
- ***Are containers based on scratch images or a specific OS? Example: RHEL OS, Alpine OS, etc.***
- ***Which deployment platform orchestrator is used? Kubernetes, Nomad, Docker Swarm, Docker Compose, another?***
- ***If using Kubernetes, is it K8s or K3s?***
- ***If using Kubernetes, is RK2 (Rancher) used as a platform to simplify the deployment and management of the Kubernetes cluster? Other? Example: Rancher, Openshift, etc.***
- ***If using Kubernetes, is an ingress-controller used to manage the traffic of the Kubernetes cluster?***
- ***If using Kubernetes, is Helm or another tool used to manage Kubernetes packages? (Managing definition, installation, updates, and management of the cluster).***
- ***What COTS (Commercial Off-The-Shelf) infrastructure tools are being used at the cluster level?***
    - ***For monitoring and metrics. Example: Prometheus, Grafana.***
    - ***For log management. Example: ELK.***
    - ***For security. Example: API gateways, WAF.***
- ***Are there specific criteria for fault tolerance or redundancy?***
- ***Are there criteria for high availability?***
- ***How many resources in terms of CPU, Memory, and Disk are allocated to the current cluster?"***

Answer #5:

EUSPA understands that these questions raised pertain to the existing HADG infrastructure.

Regarding the SW Infrastructure Virtualization, EUSPA does not see the need to provide additional information to the one already provided in the numerous documents included in the List of Reference Documents and made available to potential tenderers subject to fulfillment of specific conditions (e.g. signature of a Non-Disclosure Undertaking). Bidders are requested to provide a solution compatible with the requirements identified for HADG infrastructure for HAS phase 2.

Question #6:

"Please find below additional questions on HW Infrastructure:

- ***Does the document GAL-DD-GMV-HADG-00032_5.0_DDF reflect the current architecture, or has it changed due to a new Change Request?***

- ***Do you have any requirements specifying which computing and storage resources need to be free (e.g., minimum percentage of CPU, memory, free disk space, etc.)?***
- ***Is there physical space for new infrastructure? Is there another room available that meets the security requirements?***
- ***Is there a validation or maintenance platform in addition to the operational one?"***

Answer #6:

EUSPA understands that these questions raised pertain to the existing HADG infrastructure.

Regarding the HW Infrastructure:

- Does the document GAL-DD-GMV-HADG-00032_5.0_DDF reflect the current architecture, or has it changed due to a new Change Request? → *YES, it reflects the current architecture at design level.*
- Do you have any requirements specifying which computing and storage resources need to be free (e.g., minimum percentage of CPU, memory, free disk space, etc.)? → *Not see the relevance of this for making a proposal for this procurement.*
- Is there physical space for new infrastructure? Is there another room available that meets the security requirements? → *YES, there will be areas complaint with the security requirements for the deployment of the HADG infrastructure for the HAS Phase 2.*
- Is there a validation or maintenance platform in addition to the operational one? → *YES.*

Question #7:

"Please find below additional questions on the Security and Accreditation:

- ***Is the E-GSC currently security accredited? If yes, at which level?***
- ***We assume that the maximum EUCI classified level of the new HADG would be RUE. Is that correct?***
- ***Assuming the maximum EUCI security level of RUE for the new HADG, what is the available space on the server's rooms, and / or racks, to install the new HADG classified elements?"***

Answer #7:

EUSPA understands that the questions raised are on the existing HADG infrastructure.

Regarding the Security and Accreditation:

- Is the E-GSC currently security accredited? If yes, at which level? → *YES, it is, at enough level to host the intended infrastructure.*
- We assume that the maximum EUCI classified level of the new HADG would be RUE. Is that correct? → *Please review the HADGp2-AD-SA04 HAS Phase 2 Tailored Security Classification Guide EUSPA-SEC-SRS-SCG-R01335-RUE, 1.1 R-UE/EU-R.*
- Assuming the maximum EUCI security level of RUE for the new HADG, what is the available space on the server's rooms, and / or racks, to install the new HADG classified elements? → *The GSC site will be capable of hosting the HADG infrastructure for HAS Phase 2.*

Question #8:

"In the document HADG Infrastructure for HAS Phase 2 –Statement of Work EUSPA-GAL-GSC-SOW-A26386 Issue/version: 1.0 there is a baseline requirement:

'HADGp2-SoW-4007 Backup site platform

The Contractor shall provide a redundant operational platform for the E-GSC backup site (Toulouse, France).'

That indicates the provision of a full HADG platform instance (HW+SW) at the backup site.

However, Option #5 requires also another unit:

'Option #5: Additional HADG unit at back up site
HADGp2-SoW-10018 Provision of an additional HADG unit at back up site

The Contractor shall provide and deploy an additional qualified and capable of being integrated with external elements HADG unit at the GSC back up site.'

Is the Option #5 requiring an ADDITIONAL unit to the one mentioned in the HADGp2-SoW-4007?"

Answer #8:

Yes, Option #5 requires an ADDITIONAL unit (on top of the baseline unit required in HADGp2-SoW-4007, at the GSC back up site.

Question #9:

"Among the delivered documentation does not appear neither the current HADG v1 validation plan (AIV Plan (AIVP) GAL-PL-GMV-HADG-00036 7), nor any validation evidence (IVTP or IVTR documentation). These documents are required to assess the level of functionality reached by the current operational platform."

Answer #9:

The level of functionality of the existing HADG infrastructure is not linked to the requirements of HADG infrastructure for the HAS phase 2. EUSPA does not see the need in sharing these documents for the purpose of the preparation of a proposal for the HADG infrastructure for the HAS phase 2.

Question #10:

"*we kindly ask the Agency to extend the deadline for submission to 16/09/2024.*"

Answer #10:

Please refer to Corrigendum No. 4.

Question #11:

"***Annex I.A.V – Contracting Authority Undertakings" indicates that HADG (for HAS Phase 1) developed SW source code will be delivered at KOM.***

We would like to have a clarification on the scope of the HADG (for HAS Phase 1) developed SW source code.

In the HADG phase 1 PSJF (HADGp2-RD-HO12 PSJF), provided in the documents related to the handover assets (Annex_I_A_VI_RD_1.1), it is indicated that :

'As regards magicGNSS ODTS/PPP perpetual exploitation license limited to the use in the frame of the Galileo HAS will be granted to EUSPA based on the License terms included in Annex A zip file (magicODTS_PPP_Generic_License_Terms.pdf).

Note that the magicGNSS licenses are linked to the HW and cannot be ported to other systems. For HW changes it shall be approved and granted by the COTS provider.'

It seems to imply that magicGNSS ODTS/PPP are excluded from the scope of the HADG (for HAS Phase 1) developed SW source code delivered as handover assets.

Furthermore, it specifies that EUSPA license on that SW components doesn't allow the reuse of this SW components for HADG Phase 2 without GMV agreement if the HW is not identical to HADG Phase 1.

According to our understanding above, the reuse of HADG Phase 1 SW modules part from magicGNSS ODTS and magicGNSS PPP components would require :

- ***To subcontract SW modules evolutions activity to GMV, if they are not use "as is". Since the source code would not be included in handover assets.***
- ***That GMV approves and grants porting on a different HW, if they are not use in identical HW.***

Could you please confirm this conclusion ?"

Answer #12:

Your understanding is confirmed on both points. It is noted however, that as per Section 4 of Annex I.A of the Tender Specifications (Statement of Work) the tenderers may propose to not use or partially or fully reuse the current infrastructure. In addition to the above, the Contractor may propose other platforms for any other activities necessary for the implementation of the contract requirements, which will be freely assessed by the Contracting Authority. It is also noted in Annex I.A.V of the Tender Specifications (Contracting Authority Undertakings) to which the question refers to that the Contractor may elect to develop or procure different assets rather than reusing the handed over assets.