



NATO SUPPORT AND PROCUREMENT AGENCY
AGENCE OTAN DE SOUTIEN ET D'ACQUISITION



ANNEX A: Summary Description and Cost Estimate to:
<PP-AFSC/2020/ICB/DOU19040> <29 June 2020>

1. **RRFS Capability Requirement and Context** The future AFSC capability will have to provide Surveillance and Control over the full spectrum of benign, permissive, contested and denied operational environments, which may be austere, cluttered or congested, while conducting missions tailored to the requirements of the particular operation. Whilst these capabilities are diverse and complex, they can be grouped and summarized in three categories as follows:
 - 1.1. to collect and disseminate information on objects of interest in all domains in order to identify and track those objects
 - 1.2. to establish real-time situational awareness and generate common operational pictures of areas of interest
 - 1.3. to control and coordinate forces to deliver effects in areas of responsibility
2. The Capability required from an AFSC solution has additionally been categorized as follows:
 - 2.1. Core: Those elements that provide evolutionary progress from the ability to fill the capability gap that the NATO E-3 leaves to a future NATO Surveillance and Control capability able to connect, integrate and function with currently planned and existing capabilities in 2035.
 - 2.2. Tier 1 and Tier 2: Elements in Tier 1 and 2 will ensure that the forces in the timeframe beyond 2035 are able to operate as a fully integrated network force in a domain-agnostic manner and take full advantage of technological progress in distributed networking, data and information usage and storage, and decision making developments. The distinction between Tier 1 and 2 is in technological maturity and in the requirement to conduct missions in all domains. It is anticipated that this construct will allow a spiral development of capabilities and introduction of systems, processes and tools in a step-wise acquisition and procurement process.
3. An initial set of high-level requirements is already defined and will be shared with RRFS bidders. It should be understood, however, that those requirements are expected to evolve both in advance of and during the execution of RRFS contracts.
4. **RRFS Overview** The RRFS activities of the Concept Stage will bring forward a small number of High Level Technical Concepts and develop them at lower levels (by way of separate contracts with different Contractors). Development will include refinement of the high level concepts, followed by the elaboration and specification of lower-level concepts, architectures, systems, sub-systems and services in sufficient detail to allow meaningful assessment of the feasibility of implementing a solution on that basis – together with meaningful assessment of the associated risks and costs.



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5. The RRFS will culminate in the selection of a single Concept for subsequent work, and the outputs from the RRFS contracts will be the primary sources of information supporting the decision to select that Concept. Those outputs should therefore, be evidence-based and objective to the maximum extent possible within the constraints of the AFSC context.
6. It is expected that approximately 1 year (from Contract award) will be available to complete RRFS studies.
7. **RRFS Scope** It is expected that the scope of RRFS contracts will include:
 - 7.1. refinement of the high level concepts
 - 7.2. elaboration of the high level concepts to generate lower-level concepts and architectures (compliant with the NATO Architecture Framework (NAF) at version 4)
 - 7.3. specification of systems, sub-systems and services
 - 7.4. an analysis of the 'technology landscape' and potential existing/planned NATO owned/operated capabilities which could contribute to AFSC
 - 7.5. generation of technology 'roadmaps' to support assessments of feasibility and risk (such roadmaps to fully address the early life-cycle including, at least, research and development, manufacture, testing and evaluation, procurement, system integration)
 - 7.6. modelling and simulation, where possible and appropriate, to support assessments of feasibility and risk (noting that NATO will provide operational scenarios and vignettes to support such activities)
 - 7.7. assessment of the feasibility of deploying a solution based on the relevant Concepts (as refined and elaborated), together with the associated risks and costs and covering, at least, the following:
 - 7.7.1. ability to meet capability requirements (including future growth)
 - 7.7.2. maturity of technical solutions (e.g. Technology Readiness Levels)
 - 7.7.3. risks associated with new technology or product development
 - 7.7.4. technical integration and interoperability
 - 7.7.5. architectures (including scalability and ability to upgrade)
 - 7.7.6. information assurance
 - 7.7.7. human factors and training
 - 7.7.8. infrastructure
 - 7.7.9. compliance with current and future safety and legal requirements
 - 7.7.10. commercial aspects of the concept (such as availability of acceptable user rights and intellectual property rights and the ability to maintain effective competition beyond the Concept Stage)
 - 7.7.11. operational feasibility (including vulnerability/survivability, deployability, sustainability, availability and life-cycle support)
 - 7.7.12. financial feasibility (including life cycle stages: development, production, usage and support, and disposal)
 - 7.8. proposed plans for the implementation of full Core capability by 2035 (including any opportunities for Tier 1&2) and any increments required to reach full Tier 1 and Tier 2 capabilities thereafter



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- 7.9. identification of relevant 'gaps' in current knowledge or of areas in which technological advances are necessary, together with recommendations for relevant research or development activity
 - 7.10. identification of opportunities (if any) to influence the evolution of legacy NATO or National capabilities and systems in ways which would benefit AFSC
 - 7.11. identification of opportunities (if any) to influence the evolution of NATO (or other) Standards in ways which would benefit AFSC
 - 7.12. generation of concise reports of the work undertaken during RRFS and the results of assessments
8. **Requirements of RRFS Contractors** Successful participation in RRFS will require Contractors with the following attributes (amongst others):
- 8.1. advanced capabilities in the definition and development of complex systems of systems in the military domain (including advanced ability to exploit architecture-driven approaches)
 - 8.2. broad and deep knowledge of emerging technologies (not limited to the military domain)
 - 8.3. ability to innovate, where appropriate, balancing the maturity of emerging technology with its potential to deliver capability
 - 8.4. relevant knowledge from both civilian and military domains, for example in the following areas:
 - 8.4.1. persistent wide-area surveillance
 - 8.4.2. intelligence, surveillance and reconnaissance (ISR)
 - 8.4.3. command and control (C2)
 - 8.4.4. communications
 - 8.4.5. sustainment and availability
 - 8.4.6. survivability
 - 8.4.7. protection and vulnerability
 - 8.4.8. information and data storage and processing
 - 8.4.9. interoperability
 - 8.4.10. configuration and modularity
 - 8.4.11. upgradability and scalability
 - 8.4.12. training
 - 8.4.13. cost estimating
 - 8.4.14. modelling and simulation
9. **Rough Order of Magnitude (ROM) Cost Estimate.** It is estimated that each RRFS contract will be valued between 15 MEUR and 25 MEUR.
10. **Final Date for Responses to this Notification.** Declarations of Eligibility should reach NSPA (at the address below) on or before 4 August 2020
11. **Classified Information** Participation in the bidding process (and in any subsequent contract) will require the handling of NATO RESTRICTED information. It is possible that execution of a contract would additionally require the handling of NATO SECRET information.



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12. **Contact Information.** All correspondence relating to this Notification should be addressed as follows:

NSPA – AFSC Principal Procurement Officer
AFSC RRFS – Declaration of Eligibility
L- 8302 CAPELLEN
G. D. Luxembourg
E-mail: pp.afsc@nspa.nato.int

13. **Project Identification** Responses to this Notification should refer to “AFSC RRFS”. Invitations for Bids will be identified in due course using IFB-0030-AFSC-DOU19040.

14. **Bidding Method** NSPA intends to follow the NSIP Two-Step Bidding Procedure described in Annex II to Reference B and therefore issue a Request for Bidders Views (RFBV) prior to IFB release (see above).

NSPA also intends to conduct Best Value (BV) Evaluation in accordance with NATO's approved procedures for International Competitive Bidding.

15. **Additional Information**

15.1. **Language** - The Request For Bidders View, Invitation for Bid, Statement of Work and subsequent contract will be in the English language. Offers and any communication to be made by the Bidders, and any technical data or documentation to be furnished by the Contractor must also be in English.

15.2. **Currency Conversion Rates** - N/A at this stage.

16. **Final Considerations**

16.1. The Intellectual Property associated with RRFS contracts will be owned and controlled by NSPA, on behalf of NATO. Additional contract terms and conditions related to Intellectual Property will be included in the IFB package.

16.2. The RRFS is open to all eligible firms. The RRFS projects will be announced as one competition (i.e. one Invitation for Bid) with up to three awardees utilizing a single Statement of Work with different optional contract line items for the down-selected High Level Technical Concepts (HLTCs) represented in separate annexes to the Statement of Work. Bidders will be allowed to bid on one or more HLTC(s) that their company or consortium think they are more aligned to.

16.3. Evaluations will be conducted by grouping bids for the same HLTC together, and evaluating them against each other. This will result in separate bid evaluations (grouped by HLTC) due to the potential differences in level of effort and skills required.

16.4. In order to preserve the independence of the feasibility analysis, the RRFS contractor and its subsidiaries, any entities under the contractor's common control, affiliates and sub-contractors shall have no involvement whatsoever in any of the other two RRFS contracts.



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16.5. The RRFS contractor and its subsidiaries, any entities under the contractor's common control, affiliates and sub-contractors shall have no involvement whatsoever in NSPA's AFSC Contracted Engineering Support contract.

DECLARATION OF ELIGIBILITY

Notification of Intent – IFB-0030-AFSC-DOU19040

FROM: (Originator)
TO: NATO Support and Procurement Agency (NSPA)
SUBJECT: Expression of Interest in International Competitive Bidding (ICB) for the implementation of Allied Future Surveillance and Control (AFSC) **Serials 2016/OWI27006, 2016/OWI27007 and 2016/OWI27008, titled, “Risk Reduction and Feasibility Study”.**

A. With reference to the ICB procedures described in Reference B of NSPA's Notification Of Intent (NOI) letter, the following [Country of Origin] firm(s) have expressed an interest in receiving the bidding documents:

- “Company A”
Security Level Facility and Personnel:
Address:
Point of Contact:
Tel:
E-mail:
- “Company B”
Security Level Facility and Personnel:
Address:
Point of Contact:
Tel:
E-mail:
- [Add more firms as needed]

B. I certify that these firm(s) have the necessary financial, technical and professional competence to be admitted by the Government of [Country of Origin] as Bidders were it responsible for awarding a contract of this nature. All of the firms above are security cleared to the level required for this project.

(Signed) Country of Origin Representative