

NCIA/ACQ/2023/06521  
25 January 2023

**To:** Bidders List and Distribution List

**Subject:** Invitation For Bid IFB-CO-115498-TOPFAS-BMD **Amendment 1**

TOPFAS Ballistic Missile Defence (BMD) Increments 1&2

**References:**

- A.** AC/4-D/2261(1996 Edition), Procedures for International Competitive Bidding
- B.** AC/4-D(2008)0002-REV2, International Competitive Bidding Using Best Value Evaluation Methodology, dated 15 July 2015
- C.** NCI Agency NOI NCIA/ACQ/2022/07167, dated 11 October 2022
- D.** NCI Agency IFB-CO-115498-TOPFAS-BMD; NCIA/ACQ/2022/07297 dated 14 December 2022

Dear Prospective Bidders,

1. The purpose of this Amendment 1 is to:
  - a. Publish Release 1 of IFB Bidders' questions and NCI Agency responses
2. Responses to Clarification Requests (CRs) with the status Under Consideration will be provided by the Purchaser through the forthcoming Amendment 2.
3. Responses to CR8, CR29 and CR39 refer to relevant Bidders' Conference presentations. Bidders' Conference material will be distributed to all prospective Bidders as soon as practicable.
4. Prospective Bidders are advised that the NCI Agency reserves the right to cancel this IFB at any time in its entirety and bears no liability for bid preparation costs incurred by firms or any other collateral costs if bid cancellation occurs.
5. This IFB remains the property of the NCI Agency and shall be protected in accordance with the applicable national security regulations.
6. The NCI Agency point of contact for all information concerning this IFB is Ms. Sumiko Duncan, Senior Contracting Officer (consultant), who may be reached at [CO115498TOPFASBMD@ncia.nato.int](mailto:CO115498TOPFASBMD@ncia.nato.int).

For the Chief of Acquisition:

Emira Kapetanovic  
Principal Contracting Assistant

**Attachments:**

- 1) Responses to Clarification Requests, Release Number 1
- 2) CR.33 Annex

**Distribution List for IFB-CO-115498-TOPFAS-BMD Amendment 1**

All Prospective Bidders

**NATO Delegation (Attn: Investment Adviser):**

- Albania
- Belgium
- Bulgaria
- Canada
- Croatia
- Czech Republic
- Denmark
- Estonia
- France
- Germany
- Greece
- Hungary
- Iceland
- Italy
- Latvia
- Lithuania
- Luxembourg
- Montenegro
- The Netherlands
- North Macedonia
- Norway
- Poland
- Portugal
- Romania
- Slovakia
- Slovenia
- Spain
- Turkey
- United Kingdom
- United States

**NATO HQ**

- NATO Office of Resources (NOR)
  - CIS and Cyber Capabilities Branch (CCC) Branch Head
  - NOR Secretariat Section (RPPB, IC, BC)

**Strategic Commands**

- SHAPE SDP J5 PLS, OF-5 Luc MEES
- SACT CAPDEV CAP OC2, OF-4 Stefan Meyer

**ACO Liaison Office**

**All NATEXs**

**Embassies**

## Attachment 1: Responses to Clarification Requests, Release Number 1

Index no. NCI Agency	IFB Ref.	Bidder's Question	NCI Agency Response
CR1	SRS	We kindly request a clarification; whether or not Purchaser will provide referenced items in bidding period, listed in Table1-1. TOPFAS BMD ARS for instance.	Under Consideration
CR2	SRS	Typo... "...Collaboration Space tools (Task Planner, Video, Business Intelligence, Assessment, Documents (including WebDAV support), Calendar, Wiki, Collaboration Space." Missing closing brackets lead confusion.	Under Consideration
CR3	SOW	We kindly request a clarification; whether or not the DOORS will be Requirements Management Tool. If Yes, will the Purchaser provide access to the DOORS modules of TOPFAS artefacts (ARS, SOW, SRS, ...etc). Related to this question please clarify whether the Purchaser provide DOORS licences as Purchaser furnished item.	DOORS is not a mandated tool for Requirements Management. The only requirement regarding DOORS is defined in [SOW-611] and is about DRTM to DOORS import capability. Purchaser Furnished Property and Services are listed in SOW Section 2.1.
CR4	SOW	We kindly request a clarification; if there is any specified date or schedule for delivery of Interface Control Documents(ICDs) for external interfaces.	Under Consideration
CR5	SOW	We kindly request a clarification; whether or not Purchaser will provide COTS tools regarding project management, software development, IPS... etc. or Contractor will procure/use his own tools?	Under Consideration
CR6	Bidding instructions	We kindly request a clarification about "Initial DRTM" and DRTM: "Bidding Instruction, Par. 4.5.3.3" states the format and content of "Initial DRTM" and this section also refer to "SOW 6.10", which define the DRTM specification in detail. DRTM is going to be delivered during the project execution period but "Initial DRTM" is going to be delivered with Bid Package. Question is, what will be the difference between "Initial DRTM" and DRTM? We assume the format and structure will be the same, but the content will be finalised during the project phase.  Second question is will the Purchaser provide Initial / DRTM template to the Bidders during the Bidding period or will the Contractor be expected to prepare his own Initial and final DRTM format according the requirements?	Under Consideration
CR7	SOW	We kindly request a clarification; whether or not Purchaser will provide "Deliverables" list?	Purchaser will not provide a Deliverables list.
CR8	SRS	Can you please give some example "use case scenarios" for TOPFAS application suite?	High level description of TOPFAS use cases is provided in SOW Annex B. More details were provided during Bidders Conference (See presentations session #9, #10 and #18).
CR9	Bidding instructions	Which level of traceability is required during the IFB Phase? For instance SRS - to - ECP	Initial DRTM requirements (format and initial content) are described in Bidding Instructions (4.5.3.3).
CR10	Bidding instructions	Is there a specific checklist for administrative evaluation (pass/fail)?	The check list used during the bid opening is not shared as part of the solicitation package but it verifies that the bidder has scrupulously followed the administrative requirements without taking any exception. Check list includes time of receipt of the bids, English language used, duly signed certificates provided, bid guarantee terms, etc
CR11	Bidding instructions	Do you require traceability matrix from "IFB requirements" to "Bid Package" for successful Bidding Package?	The requirements for Bid Package are defined in Book 1 - Bidding Instructions. The SRS matrix will be provided in MS Excel format to ease the preparation of the initial DRTM.
CR12	Bidding instructions	Does the existing template and definition of approach to BMD Scope Imp. Monitoring is enough for Bidding Phase?  According to the SOW requirements, it is understood that all the value items, Value Points, etc....shall be defined during the Bidding Phase. Your presentation states that they will be defined in "Initiation Phase". Please clarify.	Under Consideration
CR13	SOW	Do you foresee number of "increments/releases" for "Iterative Development Phase", or do you expect the Contractor will/shall propose it with his Bid?	In accordance with the iterative development approach and the continuous integration/continuous deployment, the release process shall be continuous. There shall be as many as needed releases to support the BMD activities as well other verification and validation events. Following PSA of Work Package 1, there shall also be maintenance and patch releases subject to exercise of the corresponding option.
CR14	Bidding instructions	What is the anticipated Contract Award Date of EDC?	Contract Award / Effective Date of Contract is planned for end Q2/2023
CR15	SOW	There is a strong depending on SOA & IdM platform which is under development. What would be the course of action if the platform is not ready at EDC? Will it postpone the start of the project?	Under Consideration
CR16	SOW	Is there upper limit for ramp-up time?	Under Consideration

CR17	SOW	When increment 1 is deployed, will the existing and new TOPFAS run side by side in a manner that both applications are dealing with the same data set? Will there be a continuous data migration need in both directions?	Existing and new TOPFAS baselines shall be able to run side by side but there is no requirement that they do this on the same database. Data migration requirement is only from existing to the new baseline.
CR18	TOPFAS General	What is meant by "TOPFAS Desktop application modules that are web-based"?	Desktop application comprises multiple functional modules implemented using different technologies. Older modules are WinForms based. Newer modules are web-based running in a web browser and integrated within the Desktop applications.
CR19	TOPFAS General	Which companies were involved in the TOPFAS development in the past?	The Agency has developed the first part / prototype and it was then further developed by FCC, Spain selected for the industrialisation first increment under an international competitive bidding.
CR20	TOPFAS General	How much budget was spent to develop TOPFAS until now? For which time period?	This information is not assessed to be needed for the context of the bid. Several millions were spend from the genesis of the software under Agency program of work and then about 20 millions to industry for development over 15 years.
CR21	TOPFAS General	How many contracts were awarded to Industry for TOPFAS up to now?	4 contracts were awarded to industry for the development of TOPFAS Inc 1, Inc 1.1, Inc 2 and eRRS-RRT
CR22	SOW	What is the anticipated duration of ramp-up phase, considering that there are fixed delivery dates for T-25 etc.?	Under Consideration
CR23	SRS	The list of components is not complete, is it to be taken that unmentioned components will not be modified, only maintained as is? i.e. TBT, TOPFAS lite, CAT Analysis, CAT Data Entry, etc?	Under Consideration
CR24	SRS	There is no mention of eFGMT, NCRS, OCC E&F, or RRT in the SRS. Is it to be assumed that there are no major changes/updates to these tools?	Under Consideration
CR25	SRS	Is there a plan to migrate desktop apps to web, or is it user's choice? Are stored procedures still invested in? Do new functionalities require or rely on new stored procedures? Are there plans to eliminate stored procedures? How much of the whole stack is desktop based?	Under Consideration
CR26	TOPFAS General	What is Operational Planning Directive? Is it an artefact of daily use of application? How is it compared to user manuals?	The Comprehensive Operations Planning Directive (COPD) (and other military documents) describes the military doctrine (almost) independently of the tool where the user manual describes the tool (almost) independently of the doctrine. We could compare this with car user manual vs traffic regulation (doctrine).
CR27	SRS	Is there a GIS-enabled database behind? Are there GIS queries, etc.? Are all the web applications angular based, or are there legacy web applications as well?	MSSQL Server geography data types are used. Geo (map) data is provided by CoreGIS. eFGMT is using AngularJS, NCRS is using ASP.NET and part of the TOPFAS Web Portal is using ASP.NET MVC Razor pages. All other applications are in the latest Angular.
CR28	SRS	Is there any expectations/requirement to cover migration of the existing data of current TOPFAS System?	Under Consideration
CR29	SRS	What does "Replicated TOPFAS database" mean? IS there any expectation to cover replication of the data over different sites?	Full replication of data across multiple sites is part of TOPFAS architecture and shall be maintained. Please refer to the Bidders Conference presentation session #18.
CR30	BMD	Regarding the new BMD features. Is there additional information available other that the written requirements? Mock-Ups? Presentations?	No further information is available.
CR31	NSF	When will the NSF DevSecOps Environmental for NATO RESTRICTED be operational?	The strategy to deploy NSF DevSecOps Environment for NATO RESTRICTED can be implemented as soon as the security directive for hosting NATO data in NR is approved by NATO Nations.
CR32	NSF	Will there be specific HW required to connect to the NSF NATO RESTRICTED?	No.
CR33	TOPFAS General	Is there any 3rd party library already identified that does not have a .NET Core version?  Can you provide a complete list of 3rd party libraries used in the current TOPFAS?	At least the following: .NET Remoting, Teleplan Maria GDK component is currently .Net Framework only. Details provided in annex CR.33. List of 3rd party libraries is attached (annex CR.33)
CR34	TOPFAS General	Can you provide a technological roadmap for the applications? Will the razor web applications be migrated to SPA? Will all the server side applications/services be containerized to be hosted on SOA & IdM? Any other updates in relation to the technological roadmap?	Under Consideration
CR35	TOPFAS General	Is the TOPFAS portal developed using Microsoft SharePoint or is it customly developed from scratch? Regarding online spreadsheet/word processor applications, are this based on 3rd party components (open source or components licensed)?	The TOPFAS portal is not developed using SharePoint, it is custom development. The spreadsheet/word processor are currently based on the 3rd party component DevExpress.
CR36	TOPFAS General	Are web version of the desktop apps on par with desktop versions with regard to functionality they provide? If not, is it required or desired in the long term?	Under Consideration
CR37	NSF	Can all Azure services be used? Or only certain services are used to avoid cloud provider lock-in?	Azure services usage is limited to the services provided by the NATO Software Factory (Azure Devops and Azure DevTestLabs / associated services) for development and testing purposes. TOPFAS applications in production shall not rely on any Azure service (as Azure Cloud will not be accessible).

CR38	NSF	Are SonerQube reports available for all or some of the software components of TOPFAS? Can samples be provided during the IFB phase?	Under Consideration
CR39	INTEL-FS	Will the INTEL- FS roadmap be provided during the IFB, or will be generalized and defined after?	Tentative INTEL-FS roadmap and delivery is provided in Bidders Conference Briefing #11.
CR40	SRS	Are "Content Update Files" what is referred to as "Recorded Messages" in the SRS?	Under Consideration
CR41	SOA&IDM	It was noted that SOA&IdM is currently deploying wave one. Will the full Roadmap be provided for the IFB?	SOA&IDM Platform is planned to be delivered across two waves. The first wave is due to complete by 2024 and the second wave is under planning.
CR42	Bidding instructions	Can you provide the documents of TOPFAS, such as SSD, ICD, Database Model, Users Manuals, Architecture Design, Training Materials, etc.? In addition, can you provide the reference documents?	Under Consideration
CR43	TOPFAS General	Is there any license to be considered as part of the offer for the 3rd party libraries & components; especially the ones to be migrated from .NET framework to .NET core?	Under Consideration
CR44	TOPFAS General	What is the total size of the O&M team for the current TOPFAS system?	Under Consideration
CR45	TOPFAS General	What is the status of existing TOPFAS Apps in terms of adaption to NSF? Does it include the usage of SOA&IdM? Does it include Desktop Applications?	All TOPFAS applications including desktop applications are managed and deployed in NSF. There is currently no direct SOA&IdM usage in NSF for TOPFAS.
CR46	ETEE	Is there predefined structure of the "content update file" for ETEE interface? Is this file/structure use for two way integration?	There is no predefined structure of the "content update file". ETEE FS is agnostic of the content. The file should be generated and consumed by TOPFAS. The generated file should define an intended update to TOPFAS and be available to an ETEE FS user for attaching to an Exercise Script element. At the scheduled time in the exercise script, ETEE FS will send the file by email to TOPFAS for processing.
CR47	SOA&IDM	When will be SOA IdM platform available for use with respect to EDC?	Under Consideration
CR48	AIRC2IS	Which version (AIRC2IS-1 or 2) will be used in the integration between AirC2IS and TOPFAS?	Under Consideration
CR49	SOW	To provide project schedule, can we assume that Purchaser Furnished Items will be provided at the beginning of the project, for instance EDC or EDC + 1 month? What about ICDs?	Under Consideration
CR50	SOA&IDM // NSF	How do NSF and SOA &IdM platforms separate responsibilities and collaborate together?	Under Consideration
CR51	AIRC2IS	Air C2IS Regarding the "Optional Capabilities" will the current capabilities will be kept and new AirC2IS capabilities will be implemented on top of that or all capabilities will be developed from scratch?	The question is not relevant to this IFB.
CR52	Bidding instructions	Regarding the planned budget, the IFB says about 27 M Eur. The IFB contains a maximum of 22 M. Could you please explain from where the difference is coming from?	The overall budget estimation at 27 M€ as mentioned in the Notification of Intent to invite for bid included the lifespan of the contract with the optional In service support CLINS while the 22 M€ not to be exceeded for the CLINS 1 to 5 represents a ceiling on the investment part of the project calculated per the regulation to 125% of the estimate/authorised budget. The 27 M€ did not consider the 125% ceiling on CLINS 1 to 5.
CR53	SRS	When we look at the traceability matrix, the "ARS Reference Column" points to "TOPFAS", "BMD-ARS", etc. But we cannot comprehend functional capabilities of the TOPFAS applications from the perspective of the end-users using SAT, OPT, CAT etc. What does the reference "TOPFAS" refer too?	The ARS reference, in the form of "BMD-ARS-xxxx", indicates that the SRS requirement is derived from the BMD Architecture Requirements Specifications (BMD ARS) with reference/trace to the specific ARS requirements. The ARS reference "TOPFAS" is placeholder to indicate that the requirement is not derived from the BMD ARS.
CR54	SOW	Is the purpose of this project (bidding) to rewrite the whole TOPFAS application suite (both desktop and web) from scratch? If not how can we limit the scope?	Under Consideration