

RFI-ACT-SACT-19-87

Headquarters Supreme Allied Commander Transformation



Norfolk, Virginia

REQUEST FOR INFORMATION RFI-ACT-SACT-19-87

This document contains a Request for Information (RFI) Call for Industry Input to NATO's Air Command and Control Capabilities.

Suppliers wishing to respond to this RFI should read this document carefully and follow the guidance for responding.

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1 GENERAL INFORMATION

Request for Information No.	RFI-ACT-SACT-19-87
Project Title	Request for industry input to the further development of NATO's Air Command & Control capability (state-of-the-art, art-of-the-possible).
Due Date for Submission of Requested Information	31 Jan 2020
Contracting Office Address	NATO, HQ Supreme Allied Commander Transformation (SACT) Purchasing & Contracting Suite 100 7857 Blandy Rd, Norfolk, VA, 23511-2490
Contracting Points of Contact	Ms. Tonya Bonilla Tonya.bonilla@act.nato.int 757-747-3575 or Ms. Catherine Giglio Catherine.gigilo@act.nato.int 757-747-3856
Technical Points of Contact	MAJ Christopher Nunez Christopher.nunez@act.nato.int 757-747-3487

2 DISCLAIMER

This is a Request for Information (RFI) for market research/survey purposes only, does not constitute an Invitation for Bid or a Request for Proposal and should not be considered as a commitment on the part of the North Atlantic Treaty Organization (NATO). Responses to this market research request are placed on notice that any information received by NATO does not ensure participation in any planned or anticipated future solicitations or contract awards. NATO will not reimburse participants for any expenses associated with their participation in this informational request.

3 INTRODUCTION

Headquarters Supreme Allied Commander Transformation (HQ SACT) is issuing this Request for Information (RFI) in order to engage with industry. The intention is to establish the state-of-the-art and art-of-the-possible with respect to technologies and products in the area of NATO Air Command and Control (AirC2).

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4 BACKGROUND

Currently, AirC2 within the NATO Command Structure (NCS) and NATO Forces Structure (NFS) is mainly supported by the following tools:

- Air Command and Control System (ACCS);
- AirC2 Information Services (AirC2IS)
- Legacy and Interim systems (ICC, NEC CCIS, MASE, NIRIS, CSI)

In an effort to harmonize the future development of NATO AirC2 across all aspects of DOTMLPFI (**D**octrine, **O**rganization, **T**raining, **M**ateriel, **L**eadership, **P**ersonnel, **F**acilities, **I**nteroperability), a comprehensive AirC2 Capability Architecture will be developed in the upcoming years. Due to the high level of AirC2 integration between the NCS, the NATO Force Structure (NFS), NATO Nations, and other partners, the architecture's scope needs to span from the NATO Enterprise through the Alliance and including Federations. Hence, tools supporting AirC2 need to emphasize on **M**(ateriel) and especially **I**(nteroperability) aspects.

For that reason this RFI seeks to get information about art-of-the-possible and state-of-the-art technologies and products to allow for informed governance decisions on the future of AirC2 within NATO.

5 REQUESTED INFORMATION

5.1 SUMMARY

HQ SACT is investigating Information Technologies (IT) and Interoperability Solutions resident within NATO nations' industries, which have the potential to support NATO's AirC2 capability needs. This investigation is researching potential IT and interoperability solutions to support operational- and tactical-level planning, tasking, and control of joint air operations performed under Joint Force Air Component Commander, Joint Force Air and Missile Defence Commander, and Joint Force Airspace Control Authority responsibilities.

5.2 DETAILS

Functional areas of interest include (in no specific order), but are not limited to:

- Air Strategy Development
- Air and Missile Defence Planning
- Air Support Request Management
- Air Mission Tasking Development
- Air Mission Monitoring and Management
- Air Domain Situational Awareness/Surveillance
- Air C2 Asset Planning and Management

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- Intelligence Preparation of the Operational Environment
- Air ISR Strategy Development and Planning
- JFACC Target Planning
- Dynamic and Time Sensitive Targeting
- Airspace Planning & Management
- Joint Personnel Recovery Planning and Management
- Air and Missile Mission Control (Tactical C2)
- Air Mission Reporting
- Tactical and Operations Assessment
- Space Operations Integration (with AirC2)
- Cyber Operations Integration (with AirC2)
- Electronic Warfare Battle Management Integration (with AirC2)
- NATO NCS Cross-Component Interoperability
- NATO NCS, Alliance, and Coalition Interoperability
- BMD surveillance and BMD weapons engagement

5.3 REQUEST

HQ SACT kindly requests NATO nations' industries to provide information packages identifying and describing IT and interoperability solutions, which could potentially support NATO AirC2. In parallel we will encourage Nations to engage with industries having promising products and/or solutions and to make them aware of this RFI. All Commercial/Governmental/Military of the Shelf (COTS/GOTS/MOTS or CGM) are of interest and the information packages should include statements covering the following, amongst others:

- functionality
- scalability
- hard-/software requirements
- service orientation
- realization of open architecture (i.e. future proof)
- interoperability standards
- pricing / lifecycle cost (including lifecycle support costs)
- level of maturity
- intellectual property rights
- embedded technologies
- quality control standards
- facility/locations where live demonstrations may be provided
- specify if the programme is domestic, deployed internationally, or a combination of both
- any logistic, sustainment, and training delivered as part of a prime contract
- challenges to developing exportable capabilities and approaches to limit the impact of national export restrictions
- implemented multi-level security or a method to segregate data from different users (e.g. role based permissions)
- observed downtimes for system software/hardware updates and mitigation approaches

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- cite current experience with transitioning from waterfall to agile development and successful workarounds implemented

Please note: HQ SACT kindly asks for submission of a response even if only a subset of the functionalities listed above at section 5.2 can be met. Needless to say that a response should be submitted as well when more than the range listed above should be available. Additionally, please identify if your industry was the prime, a major sub-contractor (> 20% of the technical development) or minor subcontractor. If you were a subcontractor on any of the work cited, identify your specific work scope.

5.4 DEADLINE

Responses to this RFI are kindly requested to be submitted until 31 Jan 2020 by e-mail to the Points of Contact listed above at section 1.

Tonya Bonilla

HQ SACT Contracting Officer