

1st /2022 SCM

Subject No 4



**INTEGRATED AIR & MISSILE DEFENCE
CENTRE OF EXCELLENCE**

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**1st/2022 Steering Committee Meeting
POINT PAPER**

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Date:	1 Aug 2022	Email:	info@iamd-coe.org

TO: See Distribution

SUBJECT: **NIAG Study** [Counter Rockets, Artillery, and Mortar (C-RAM) Technologies and Required Capabilities (C-RAM Technology and Required Capabilities)].

No: **4**

PURPOSE:

- To approve the participation in the activities of the aforementioned NIAG Study.
- To approve the Centre's intention, to suggest the hosting, of the Kick-off Meeting (KO) and the Final Meeting.

BACKGROUND:

Alliance has struggled with developing and fielding a full C-RAM capability. Early efforts date back to the time of the Iraq War with the fielding of sense and warn systems being deployed to protect static operating bases. In the intervening time, there have been significant improvements in sensor and effector technologies that can result in the ability to provide significantly enhanced force protection capabilities. The RAM threat is generally viewed as being a segment of the total air and missile defence threat spectrum. However, the actual threat itself, rockets, artillery, and mortar projectiles are significantly different physically from fixed and rotary wing platforms, cruise, and ballistic missiles. The resulting C-RAM capability is expected to require special sensors and effectors to counter threats. These sensors and effectors would augment the sensors and effectors in air and missile defence units, not replace or substitute them. The integration of the C-RAM capability into the existing VSHORAD and SHORAD units with the list force structure impact is an important factor.

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ANALYSIS &
STATUS:

The objective of the study is to evolve a C-RAM capability construct that may be integrated into existing very short- and short-range air defence systems to enable the enhanced unit to counter the aerial threat, including C-sUAS as well as C-RAM and other aerial threats. Today an effective C-RAM capability does not exist and is a force protection gap. This gap must be mitigated as shown by events in Ukraine.

C-RAM is a NATO High Visibility Program and is an important and integral element of the NATO Surface Based Air and Missile Defence program of work currently designed as a high priority program. There are several NATO organizations and agencies involved or interested in the C-RAM topic, including ACO, ACT, IMS, AIRCOM, DI (Multinational Programs), and NSPA (Project Management/Contracting).

FINANCIAL
CONSIDERATIONS
& FUNDING:

Any financial impacts of the aforementioned activities will be covered from the existing budget of the current year (and by transferring of appropriations within the authorization granted to the Director in accordance with Financial Administrative Procedures, if required) without the need for a supplementary budget.

Any financial obligations for the next years (including the potential hosting of the kick-off and Final meetings) will be foreseen in the shared budget of the respective Fiscal Years.

RECOMMENDATIONS
& DECISION:

SC members are requested to approve:

- a. the participation of SMEs in the Counter Rockets, Artillery and Mortar (C-RAM) Technologies and Required Capabilities (C-RAM Technology and Required Capabilities) Study.
- b. the submission of the Centre's suggestion to the NIAG, to host the Kick-Off and the final meeting.

FOR THE IAMD COE:



B. Gen (OF-6) Nikolaos KOKKONIS GRC (AF)
IAMD COE Director

ENCLOSURES

1. Action Sheet NAAG/JCG SBAMD/NIAG Study Proposal

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