

**MILITARY COMMITTEE LAND STANDARDIZATION BOARD (MCLSB)**

14 March 2013

NSA(ARMY)0362(2013)1/ARTY

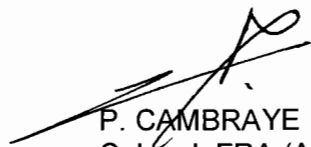
Chair JCG GBAD  
Info: All TAs/DTAs

**IMPLEMENTATION GUIDELINES FOR THE USE OF JOINT RANGE EXTENSION APPLICATION PROTOCOL – APPENDIX C IN A NATO SURFACE BASED AIR DEFENCE- GROUND TASK FORCE – ALLOCATION OF STUDY NUMBER AND DETAILED TASKING.**

References:

- A. NSA(ARMY)1118(2012)1/LSB dated 3 October 2012
- B. AAP-03(J)

1. With MCLSB approval of the Standardization Task (see Reference A and enclosure) the JCB GBAD is tasked by this letter to develop the standardization documents in accordance with AAP-03(J).
2. The MC Land Standardization Board agreed to give the following STUDY number to the document: STUDY 2619 ARTY - IMPLEMENTATION GUIDELINES FOR THE USE OF JOINT RANGE EXTENSION APPLICATION PROTOCOL – APPENDIX C IN A NATO SURFACE BASED AIR DEFENCE – GROUND TASK FORCE DOCTRINE – ATP-86
3. The MCLSB accepts that the finalized product will take the form of a STANAG covering an ATP.
4. The classification of the document will be decided based on the final recommendation of the JCG GBAD when forwarding the final products to MCLSB for approval to enter ratification.
5. The custodianship for the standard is given to USA.
6. Study 2619 has been allocated a **Medium** priority.

  
P. CAMBRAYE  
Colonel, FRA (A)  
Chairman MCLSB

Enclosure :

Standardization Task for IMPLEMENTATION GUIDELINES FOR THE USE OF JOINT RANGE EXTENSION APPLICATION PROTOCOL – APPENDIX C IN A NATO SURFACE BASED AIR DEFENCE- GROUND TASK FORCE – ALLOCATION OF STUDY NUMBER AND DETAILED TASKING.

NATO UNCLASSIFIED

**Originator:** Military Committee Land Standardization Board

**To:** NAAG for Joint Capabilities Group on Ground Based Air Defence (JCG GBAD) – to be renamed as Surface-Based Air Defence – Ground (SBAD-G)

**Cc:** NSA

**STANDARDIZATION TASK**

**Subject:** IMPLEMENTATION GUIDELINES FOR THE USE OF JOINT RANGE EXTENSION APPLICATION PROTOCOL – APPENDIX C IN A NATO SURFACE BASED AIR DEFENCE- GROUND TASK FORCE – ALLOCATION OF STUDY NUMBER AND DETAILED TASKING.

**Reference:** Standardization proposal originated by JCB GBAD

AJP-01(D) – Allied Joint Doctrine  
AJP-03(B) – Allied Doctrine for Joint Operations  
Draft ACO “Operational Level Concept for NATO Ground Based Air Defence Operations”, dated 13 January 2012  
NATO Air and Defence Policy, CM(2012)0006, dated 27 January 2012  
NATO Air and Defence Capstone Document, CM(2012)0007, dated 30 January 2012.

[Standardization objective]/[standardization proposal]

**Annexes:** A. Bulgaria Standardization Proposal Inquiry Response

B. Czech Republic Standardization Proposal Inquiry Response

C. Poland Standardization Proposal Inquire Response

D. Turkey Standardization Proposal Inquiry Response

**A. CAPABILITY**

- *Link with existing capabilities or force goals.*
- *Interoperability issues.*

The field of standardization for this SP is Operational, with focus on tactical level interoperability between the NATO Air Command and Control System (ACCS) and national SBAD-G weapon systems, i.e., Combined Air Operations Center (CAOC) and below. The operational domain is Joint because national SBAD-G forces are resourced, trained, and maintained by the national Land Force or national Air Force of the owning nation, while operating under the operational control of the Air Component Commander (AIRCOM). Thus, the affected services/formations are Land/SBAD-G and Air Force/SBAD-G. The proposal is within the Air Defence C2 capability. The proposal will have primary application within the NATO forum in response to NATO military operations with an SBAD-G mission. To the extent allowed by the North Atlantic Council, the proposal will also have application to

partner nations that participate in NATO SBAD-G operations. The requirement can be implemented in existing SBAD-G systems by adding a separate Joint Range Extension (JRE) device (1 workstation) or in the case of space and weight constrained systems, by embedding required JRE functionality in the existing tactical application (no extra workstations). The nations that may be affected by the application of this proposal would be those (including PfP) who have made SBAD-G contributions to NATO. As part of the 2012 NATO Defense Planning Process (NDPP) survey, there were 23 NATO member nations that declared one or more contributions to the “GBAD” category. Although Appendix C of the JREAP standard is designed for use with commercial IP and LAN protocols, a complete specification will include 15 specialized Management Messages that are found only in the military standard.

## **B. STANDARDIZATION REQUIREMENTS**

*Context in which the ST takes place.*

- *Field of standardization:*  
**Operational, specifically the adoption of a common approach, both within the coalition forces and between the militaries components of the mission, to facilitate full integration of the NATO Integrated Air and Missile Defence System (NATINAMDS).**
- *Operational domain:*  
**Joint.**
- *Services/formations: e.g.: Naval/submarine; Army/mechanized; Air Force, Air Defence Fighters.*  
  
**Navy/Air Defence; Army/Air Defence, Air Force/Air Defence Fighters**
- *External forum where the task also have application:*  
**The STANAG will have a direct impact on concepts of operations for all NATO and PCM land based SHORAD forces.**
- *Military or civilian standards already in existence or being prepared which could be appropriate for the Alliance: e.g. Civil SDOs as ISO, IEC, CEN, CENELEC, ETSI, ANSI, etc.*

**No, however once a JREAP-C implementation standard is developed and promulgated, NATO and PfP nations will be able to commence development of an affordable, IP-based implementation of Link 16 messages for SBAD-G TF engagement operations purposes, with some assurance that the standard itself will present a nationally agreed, stable design for acquisition purposes. When SBAD-G units are equipped with this capability, they will have affordable, integration options for information exchanges with commercial protocols.**

- *How large a requirement is it?*
  - *How many pieces of equipment, personnel or systems will be affected?*
  - *How many Nations may be affected by the application of this proposal?*

**It is recommended that a minimum of 10 NATO nations should ratify this cover STANAG. 10 is a subjective assessment of a reasonable majority among the nations that 1) have deployable SBAD-G systems (> 20 nations), 2) have declared their SBAD-G systems (23 nations) as contributions to NATO in the 2012 NDPP, and 3) have declared intent (13 nations) to cooperate for standardization, development,**

and test activities under a future SHORAD/GBAD C2 MOU. Of the latter group, 3 PfP nations have also declared intent to participate in a SHORAD/GBAD C2 MOU, bringing the full total of MOU participants up to 16.

#### **C. MILITARY REQUIREMENTS**

*A military requirement does not always have a technical solution; it may have a tactical and procedural solution.*

**The proposal will provide guidance to tactical and operational staffs with a Joint Task Force Headquarters as well as to the HQ of a Force Component, on planning and conducting SHORAD in a theatre of operations.**

#### **D. TECHNICAL REQUIREMENTS**

*Existing technology if any.*

**This proposal is based on existing SHORAD technologies already in use by allied military forces.**

#### **E. SCHEDULE AND PRIORITY**

*Targeted schedule for the ST development, standardization documents should be promulgated:*

**Medium.**

#### **F. OTHER RELEVANT INFORMATION**

- *National or NATO Body Custodian nominated and Participating Nations.*

**Custodian: GBAD C4I SG of JCG GBAD**

**Participants: Bulgaria, Czech Republic, Poland, Turkey and interest continues to grow, complete list of participants to be determined on the Nations' answers to the Standardization Inquiry.**

- *Needs for coordination with other TA/DTA/WG or NATO Bodies.*

**To be determined on the Nations' answers to the Standardization Inquiry.**

#### **G. INTENDED CLASSIFICATION OF STANDARD**

**NATO Unclassified**

#### **H. RELATED DOCUMENTS**

*Any related STANAGs or STANRECs identified?*

**STANAG 1183 AO, Ed. 5, NATO QUALIFICATIONS FOR FIXED WING ABOVE WATER WARFARE (AWW)/AIR DEFENCE (AD) AIRCRAFT CONTROLLERS**

**STANAG 7189 Ed. 1, ATP-3.3.5.1, JOINT AIRSPACE CONTROL TACTICS, TECHNIQUES, AND PROCEDURES**

**STANAG 3880 (Ed 6) AJP-3.3.1 Ed. B, ALLIED JOINT DOCTRINE FOR COUNTER-AIR OPERATIONS.**

#### **I. INTEROPERABILITY REQUIREMENT AND PARTNER INVOLVEMENT**

- *As amended in the Standardization Proposal. (STANAG only)*

**This doctrine should be made available to other partners engaged in SHORAD, UN, EU, etc.**

#### **J. PROMULGATION CRITERIA**

- *As amended in the Standardization Proposal. (STANAG only)*  
**It is recommended that 10 NATO Nations are need to ratify this STANAG**

**K. NATO EFFECTIVE DATE (NED)**

- *Requirement? (STANAG only)*  
**24 months from task commitment**

P. CAMBRAYE  
Colonel, FRA (A)  
Chairman MCLSB

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ANNEX A TO  
NSA(ARMY)0362(2013)1/ARTY

STANDARDIZATION PROPOSAL INQUIRY

NATO UNCLASSIFIED

Originator: Land Forces of Bulgaria  
To: Military Committee Land Standardization Board

STANDARDIZATION PROPOSAL INQUIRY

Reference: AC/225(JCGGBAD)DS(2012)0001(PFP)  
Subject: Implementation Guidelines for the use of Joint Range Extension Application Protocol – Appendix C in a NATO Surface Based Air Defence – Ground Task Force Doctrine.

A. NATIONAL / NATO BODY POSITION:

- |                        |     |
|------------------------|-----|
| • Supporting?          | YES |
| • Participating?       | NO  |
| • Voluntary custodian? | NO  |

B. ADDITIONAL INFORMATION

- 1) Should the scope be modified in any way?  
No.
- 2) Do you have any documents to offer on the subject?  
No.
- 3) What priority should be allocated (high, medium, low)?  
Medium.

C. NATIONAL/NATO BODY COMMENTS

- 4) What would be the most appropriate WG to develop this project?  
JCB GBAD.
- 5) Do you recommend additional representatives participate in the development of this project?  
MCLSB Arty WG and MC Air and Maritime Branches to participate in the development of this document.

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- 6) To avoid duplication of efforts is this document already covered under existing Air STANAGs?

No, not as a "stand-alone" document.

- 7) What would be the most appropriate TA to manage this project?

MCLSB.

- 8) What "Top-down" changes need to be incorporated into this document?

Partnership Cooperation Menu (PCM) terminology.

COMMANDER OF THE BULGARIAN LAND FORCES  
MAJOR GENERAL

 NEYKO NENOV

11.2012

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**STANDARDIZATION PROPOSAL INQUIRY**

**Originator:** Czech Republic MOD / Forces Development and  
Operation Division

**To:** Military Committee Land Standardization Board

**STANDARDIZATION PROPOSAL INQUIRY**

**Reference:** AC/225(JCGGBAD)DS(2012)0001(PFP)

**Subject:** Implementation Guidelines for the use of Joint Range Extension  
Application Protocol – Appendix C in a NATO Surface Based Air  
Defence – Ground Task Force Doctrine.

**A. NATIONAL / NATO BODY POSITION:**

Supporting? **YES**

Participating? **YES**

Voluntary custodian? **NO**

**B. ADDITIONAL INFORMATION**

- 1) Should the scope be modified in any way? If so, how? **NO**
- 2) Do you have any documents to offer on the subject? If so, which ones? **NO**
- 3) What priority should be allocated? **MEDIUM**

**C. NATIONAL / NATO BODY COMMENTS**

- 4) What would be the most appropriate WG to develop this project? **JCG GBAD**
- 5) Do you recommend additional representatives participate in the development of this project? **NO**
- 6) To avoid duplication of efforts is this document already covered under existing Air STANAGs? **NO**
- 7) What would be the most appropriate TA to manage this project? **MCLSB**
- 8) What „Top-down“ changes need to be incorporated into this document? **PCM**

Forces Development and Operation Division

Air Force Department, GBAD Branch

MAJ. Vlastimil HUJER



<b>Originator:</b>	<b>POLAND</b>	D&TC001(2012)MCLSB
<b>To:</b>	Military Committee Land Standardization Board	
<b>STANDARDIZATION PROPOSAL INQUIRY</b>		
<b>Reference:</b>	AC/225(JCGGBAD)DS(2012)0001(PFP)	
<b>Subject:</b>	IMPLEMENTATION GUIDELINES FOR THE USE OF JOINT RANGE EXTENSION APPLICATION PROTOCOL - APPENDIX C IN A NATO SURFACE BASED AIR DEFENCE - GROUND TASK FORCE.	
<b>A. NATIONAL / NATO BODY POSITION:</b>		
Supporting?	<b>YES</b>	
Participating?	<b>YES</b>	
Voluntary custodian?	<b>NO</b>	
<b>B. ADDITIONAL INFORMATION</b>		
1) Should the scope be modified in any way? If so, how?		
<b>NO</b>		
2) Do you have any documents to offer on the subject? If so, which ones?		
<b>NO</b>		
3) What priority should be allocated (high, medium, low)?		
<b>MEDIUM</b>		
<b>C. NATIONAL/NATO BODY COMMENTS</b>		
4) What would be the most appropriate WG to develop this project?		
<b>JCG GBAD</b>		
5) Do you recommend additional representatives participate in the development of this project?		
SHORAD is a mutual interest to the air, land maritime communities and participation from all three branches ensures harmonization developing SHORAD doctrines		
6) To avoid duplication of efforts is this document already covered under existing Air STANAGs?		
<b>NO</b>		
7) What would be the most appropriate TA to manage this project?		
<b>MCLSB</b>		
8) What "Top-down" changes need to be incorporated into this document?		
<b>NIL</b>		
<b>Ltc Radoslaw MARZEC</b>		
<b>POL REP to MCLSB</b>		

**Originator** : Turkey **Gn.P.P.:5250-41756-12/Strj.D.**  
**To** : Military Committee Land Standardization Board  
**STANDARDIZATION PROPOSAL INQUIRY**  
**Reference** : NSA(ARMY)1118(2012)1/LSB, 03 November 2012  
**Subject** : Implementation Guidelines for the Use of Joint Range Extension Application Protocol-Appendix C in a NATO Surface Based Air Defense - Ground Task Force.

**A. NATIONAL / NATO BODY POSITION**

Supporting? **[YES]**

Participating? **[YES]**

Voluntary custodian? **[YES]**

**B. ADDITIONAL INFORMATION**

(1) Should the scope be modified in any way? If so, how?

**NO**

(2) Do you have any documents to offer on the subject? If so, which ones?

**NO**

(3) What priority should be allocated (high, medium, low)?

**MEDIUM**

What should the promulgation criteria for the intended standard be? *(Not existed in the inquiry)*

**MAJORITY**

**C. NATIONAL / NATO BODY COMMENTS**

(4) What would be the most appropriate WG to conduct this Project?

**JCGGBAD C4I SG is the most appropriate.**

(5) Do you recommend additional representatives participate in the development of this project?

**ICG IF and ARTY WG.**

(6) To avoid duplication of efforts is this document already covered under existing air STANAGs?

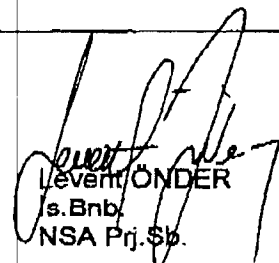
**The STANAGs related to LLAPI Procedures should be reviewed.**

(7) What should be the most appropriate TA to manage this project?

**MCLSB**

(8) What "Top-Down" changes need to be incorporated into this document?

**TBD**

  
Levent ONDER  
s.Bnb  
NSA Prj.Sb.