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5 February 2018

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Director, NATO Standardization Office

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RECORD OF RESERVATIONS

CHAPTER	RECORD OF RESERVATION BY NATIONS

Note: The reservations listed on this page include only those that were recorded at time of promulgation and may not be complete. Refer to the NATO Standardization Document Database for the complete list of existing reservations.

RECORD OF SPECIFIC RESERVATIONS

[nation]	[detail of reservation]
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CHAPTER 1 INTRODUCTION

1.1. INTRODUCTION

- 1. The overall purpose of the Reportable Item Codes (RIC) system is to produce a standardized format for reporting items of interest in a multinational and multi-lingual environment. Within NATO there are hundreds of thousands of items that are possibly relevant for operations. RICs were introduced to categorize these items according to their operational characteristics.
- 2. A RIC is a code assigned to individual assets (equipment, materiel, supplies and personnel) to categorise them according their main characteristics. It is used to define operational capabilities for NATO's user communities' needs. In a RIC each character identifies a hierarchical level in the tree structure. The items are the leaves of the tree structure and are identified by six alphanumeric characters.
- 3. The RIC system covers all mission reportable items. Further detailed classification of what is "mission essential" and what is "mission dependant" rests with the NATO Commander or operations/logistics staffs in order to accomplish the mission outlined in the operation plan (OPLAN), or during the Operational Planning Process to assess various Courses of Action (COAs). The allocation of an accurate RIC is critical to NATO logistics reporting in particular. It is important to understand that the RIC system allows for logistics reports to feed the required information to the NATO Common Operational Picture (NCOP) in order to give the Force Commander full visibility over logistics resources transiting into, throughout, and out of the theatre of operations.
- 4. The RIC system enables nations to provide information about mission essential items to the Commander, allowing him to analyse the current logistics situation. When associated with additional data, it provides the Commander with asset visibility information about items in use, in store, in maintenance, in transit or in medical treatment.
- 5. The RIC system is intended to be used in NATO and national logistics information systems. Among these systems, the NATO Logistics Functional Area Services (LOGFAS) is the principal user. Other NATO information systems that use RICs are NATO Depot & Support System (NDSS), Tools for Operational Planning, Functional Area Services (TOPFAS) and NATO Defence Planning Automated Support System (NDPASS). In the future, LOGFS shall become the principal user of the RICs.
- 6. The ever-growing community of RIC users has generated the need for establishing procedures for the production, maintenance and use of RICs. RICs are centrally regulated and controlled. A Standard Operating Procedure (SOP) on how a new RIC can be requested and an existing RIC can be modified exists (Ref [A]). The RIC STANAG will enable the RICs to be included in the NATO standardised codification system, and will extend its use by the national information systems. This

will positively influence logistics interoperability, and will improve the format, consistency and integrity of logistics information exchange.

1.2. REPORTABLE ITEM CODE

1. The Reportable Item Codes are designed to be a systematic and comprehensive classification to codify the capability of equipment, materiel, supplies and personnel. These items are to be classified by their essential characteristic versus their incidental characteristics. The classification allows the user to identify the specific characteristics of an item without the difficulties of language, terminology or abbreviations used by different nations. The current RIC system uses a 6-digit alpha/numerical code, in which items are classified as detailed as needed for planning purposes, but as generic as possible to reduce national workload.

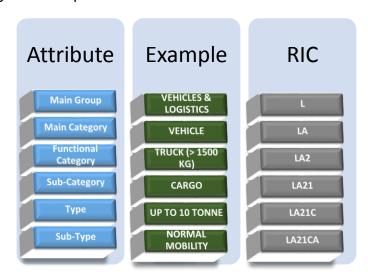


Figure 1: RIC Structure Example

- 2. Some kinds of equipment with very specific capabilities, which have relatively few makes/models (such as tanks and combat aircraft), may be listed by make/model. These may further be decomposed by functional upgrades. For example, LEO-2 (Main Battle Tank), with variants (A4, A5, A6, etc.)
- 3. A detailed description of the logical construction of RICs can be found in ANNEX A. Each item must have only one RIC assigned. If the characteristics to which items are classified are not mutually exclusive, and if the characteristics of an item would qualify it for more than one RIC, then one of these RICs shall be assigned and all others de-activated/deleted, if they already exist.

1.3. DATA EXCHANGE AND INTEROPERABILITY

1. For NATO Logistics the RIC is the key identifier for logistics data coming from the nations. Therefore the RIC will have to be used well into the future by the NATO

military command structure, nations and partners who intend to use LOG FS or have to be interoperable with LOG FS, which is subject of Force Goal 2860 (Ref [B]).

2. Adoption of the RIC standard will ensure that the RICs are consistently used within information systems which identify items and are coordinated as well as externally coherent with the wider aspects of Bi-SC AIS. This will positively impact logistics visibility for the NATO Commander and support NATO's Operations Logistics Chain Management (Ref [C]).

CHAPTER 2 RIC MANAGEMENT

2.1. RIC MANAGEMENT PRINCIPLES

- 1. RICs are one of the most important key data elements for information interoperability, and must therefore be maintained and updated under rigorous procedures. The procedures adopted to achieve these standards must however remain simple and allow for transparency throughout the RIC management process.
- 2. Only one RIC version is to be considered valid at any one time. RIC versions shall be indicated by incremental integers (i.e. v1, v2, v3, etc.)
- 3. All users of RICs are invited to contribute to the development by stating requirements and/or RIC change requests (via their RIC coordinator) and are invited to take part in the management process.
- 4. Changing the RIC version has consequences for many users. Version changes involve all RIC using communities and therefore all NATO commands, nations and operational theatres. Consequently, version changes shall only be introduced to a maximum of twice a year.
- 5. The RIC system is user-oriented and user-driven. RIC codification will only be done in areas and for capabilities where users can be clearly identified. There will be no codification effort in areas that have no perceived asset visibility value. The codification will be done according to the user requirements and validated by subject matter experts.
- 6. RICs shall remain as generic as possible, focusing on capability rather than characteristics such as manufacturer or model. Their purpose is to categorize and therefore it is generally not intended to codify each possible item on such a level that the RIC identifies the item specifically. For example, RIC shall not duplicate NATO Stock Numbers and their level of accuracy.

2.2. RIC MANAGEMENT STRUCTURE AND RESPONSIBILITIES

- 1. Logistics Reporting Working Group (LOGREP WG) is Bi-SC WG responsible for Logistics Reporting capability development in all aspects of DOTMLPFI. Logistics Reporting Working Group (LOGREP WG) is responsible to the Logistics Coordination Board (LCB) and acts under its authority.
- 2. The LOGREP WG is responsible for RIC configuration management, and the development and maintenance of this standard. The LOGREP WG provides status and progress reports to the LCB. The LOGREP WG cooperates with and therefore can provide status and progress report to the Bi-SC Logistics Functional Services Information Management WG (LOGFS IM WG) or to other groups when requested

2.2.1. LOGREP WG:

- Acts as owner of the RIC structure and the RICs on behalf of the Bi-SC,
- Is the executive RIC Management authority,
- Is the final arbiter for any disputes pertaining to RIC Management,
- Agrees on content and time of release of new RIC versions,
- Resolves open questions,
- Involves other FAS and NATO Commands as required,
- Generates a decision sheet after the meeting showing the participation and decisions taken.

2.2.2. RIC Executive Officer

Role assigned to: ACO J4 LOG, Logistics Plan & Requirement Section

- Acts as initial POC for all RIC related questions,
- Develops RIC changes and concepts, liaising with SMEs as required,
- Develops initial guidance for RIC Manager,
- Stays in close contact with RIC Manager, LOGREP WG and all related Working Groups,
- Assists in identifying and tasking Subject Matter Expert (SME), as required,
- Recommends major changes and presents minor changes to the LOGREP WG for approval,
- Distributes a decision sheet after the LOGREP WG meeting.
- Is the official publisher and distributor of RIC Deletion Candidate List, RIC release and other major RIC related information to the RIC user community (via the RIC Coordinators),
- Provides feedback to RIC Change Requests (via the relevant RIC Coordinator),
- Maintains the POC distribution list,
- Coordinates the distribution/publishing with the RIC users and
- Maintains the RIC area on NATO's LOGNET website¹.

2.2.3. RIC Manager

Role assigned to: NCIA Service Support and Business Applications Service Line

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¹ https://lognet.nato.int

- Maintains the latest RIC version,
- Maintains and further develops the technical note on "RIC Specification" (Ref [D]),
- Incorporates changes approved by the LOGREP WG,
- Reports to the RIC Executive Officer,
- Develops and maintains the RIC management tool,
- Documents all changes,
- Creates RIC Update files,
- Prepares the draft of the next RIC Version and the documentation of changes for distribution.

2.2.4. National / NATO RIC Coordinator

Role assigned to: Point of Contact within a Nation or NATO Body, or managers of NATO Systems

- Is the senior user representative for the RIC Manager and manages all RIC related issues with the end users in his area of responsibility.
- Establish and maintain a list of RIC users/systems within their nation/NATO body and coordinate all RIC related communication with them
- Nations must nominate a RIC POC for national coordination and inform the RIC Executive officer whenever a change occurs
- Review, validate and de-conflict RIC Change Requests from recognised RIC users
- Submit RIC Change Requests to the RIC Executive Officer. RIC Change Requests will only be accepted when submitted by the national RIC Coordinator
- Ensures that the current RIC Change Request form is used for change requests.
- Review RIC Deletion Candidate List for potential issues relating the usage of items proposed for deletion (i.e. ensure that none are in use by their RIC using community)
- Ensure that new RIC versions are applied by all users/systems within their area of responsibility.

2.2.5. RIC Users

Role assigned to: Personnel working with a RIC using system (e.g. LOGFAS, TOPFAS, etc.) in NATO (HQs, agencies and nations), PfP nations, and NATO led operations:

- Identify and request changes (see ANNEX B) to the RIC structure via their RIC Coordinator to better support their requirements,
- Provide feedback on RIC related issues beyond RIC Change Requests via their RIC Coordinator, and
- Ensure that they are included in their RIC Coordinator's list of users.

2.2.6. Subject Matter Experts (SMEs)

Role assigned to: Experts from Nations, NATO Command Structure, NATO Agencies or NATO Working Groups

- Person or group with expertise in specific capability areas.
- Assist in troubleshooting RIC structure problems.
- Review and recommend action on RIC Change Requests.
- May be appointed by the RIC Executive Officer for a longer period or if required may be selected temporarily on ad-hoc basis.

2.3. RIC MANAGEMENT PROCEDURES

1. The following figure provides an Overview for RIC Management / RIC Change Proposal. Each step is depicted by the circled numbers:

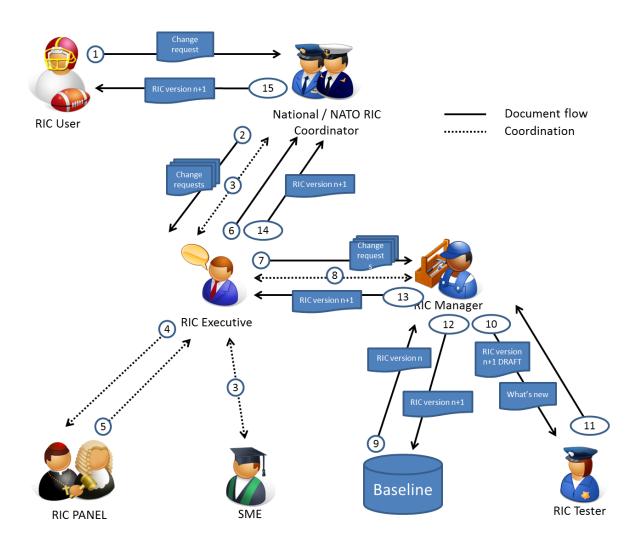


Figure 2: RIC Procedures

- 1. The RIC user identifies need for changes in the current RIC Version and creates a RIC Change Request (see ANNEX B for template) that is sent to their National / NATO Command Structure (NCS) RIC Coordinator.
- 2. The National / NATO RIC coordinator harmonizes RIC requests in his area of responsibility (including identifying conflicting/duplicate requests) and forwards the requests to the RIC Executive Officer.
- In case of issues, the RIC Executive Officer seeks clarification from the National / NCS RIC coordinator and liaises with SMEs from NATO HQ, nations, or other organisations as required.
- The RIC Executive Officer forwards conceptual questions, issues and requests for guidance to the RIC Panel within the LOGREP WG for further decisions, if required.
- 5. The RIC Panel decides about conceptual questions and issues and provides guidance as deemed appropriate, and replies to the RIC Executive Officer.

- 6. The RIC Executive Officer provides feedback the National/NATO RIC Coordinator on the processing of the RIC Change Requests. If a RIC Change Request is rejected (or accepted with modification), details are provided.
- 7. The RIC Executive Officer forwards the change requests to the RIC Manager, stating principal approval, restrictions and guidance.
- 8. If required, conceptual questions, unresolvable issues and requests for guidance are sent by the RIC Manager to the RIC Executive Officer.
- 9. The RIC Manager takes the latest valid RIC version (version n), documents the changes and develops the draft of the next RIC Version (version n+1)
- 10. The RIC Manager incorporates the approved changes and the results of discussions and investigations and generates the RIC Update file for the draft of the next RIC Version, the "What's new" documentation and if required a "Read me" file. Then he forwards this package to the RIC Tester.
 - a. RIC Update file
 - b. "What's New" overview information about the new version
 - c. "Read Me" file, if required
- 11. The RIC Tester tests and validates the draft of the next RIC version regarding technical and / or software incompatibilities. If the draft RIC version fails the tests for any reason, coordination with the RIC Manager is performed, resulting in a new draft RIC version, until all tests are passed and the RIC Tester approves the release.
- 12. The RIC Manager baselines the new RIC version, including publishing the release package on LOGNET.
- 13. The RIC Manager informs the RIC Executive Officer that the new RIC version has been published.
- 14. The RIC Executive Officer informs all National/NATO RIC Coordinators on the RIC POC Distribution List of the publication of a new RIC version.
- 15. The National/NATO RIC Coordinators inform their users of the publication of the new RIC version and ensure that it is applied to all systems and by all users in their area of responsibility.

CHAPTER 3 RIC SPECIFICATION

3.1. OVERVIEW

- 1. The RIC system is a standardized format for reporting items that covers all potentially mission essential items. It is a hierarchical system with a maximum of six levels.
- 2. The RIC system is designed to be a comprehensive classification system that codifies the characteristics of equipment, materiel, supplies and personnel. These items are to be grouped by their essential characteristic versus their incidental characteristics. The classification allows the user to identify the specific characteristic of an item without the difficulties of language, terminology or abbreviations used by different nations.
- 3. The current RIC system uses a 6-digit alpha/numerical code, in which items are classified with a RIC as detailed as needed for planning purposes but as generic as possible to reduce national workload. Each item must have only one RIC assigned. If the characteristics to which items are classified are not mutually exclusive, and if the characteristics of an item would qualify it for more than one RIC, then the predominant characteristic must drive the RIC selection.

3.2. RIC STRUCTURE

1. As mentioned before, the Reportable Item Coding system is a hierarchical system where each item code consists of six alpha-numeric characters. All six characters are used for all items. It is expected that the RIC system will be used mainly by automated systems. However, it would also facilitate manual entry if needed. To achieve this, letters are used for the first two characters, followed by two digits and ending with two more letters (e.g. AA14AC) with very few exceptions². In a Reportable Item Code, each character identifies a hierarchical level (or branch) in the tree structure. Items are identified by all six alphanumeric characters. Table 1 depicts the RIC structure with the six hierarchical levels of a RIC.

Level	Name	Туре
1	Main Group	Letter
2	Main Category	Letter
3	Functional Category	Numeric
4	Sub-Category	Numeric
5	Туре	Letter
6	Sub-Type	Letter

² Exceptions will only occur if too few letters (A-Y) or numbers (1-9) exist to codify a specific RIC on that specific tree or leave level.

Table 1: RIC Structure

2. For example, the aforementioned RIC **LA21CA** identifies:

RIC	L	Α	2	1	С	Α
Name	Vehicle & Logistics	Vehicle	Truck (> 1500 KG)	Cargo	Up to 10 Tonne	Normal Mobility

- 3. Some further specific coding conventions are applied. The letter "Z" is used for any level that does not further specify that item and can be used in any position. The term "Not Otherwise Specified (NOS)" is used for Z indicating the lack of further information for that item. The NOS designator can be used at all levels. However, the use of NOS designators should be avoided in practice when further details are known.
- 4. Letters "I" and "O" and the number "O" are whenever possible avoided since these can be easily confused by the users.
- 5. For example, RIC AZZZZZ identifies:

- 6. The RIC **ZZZZZZ** is used to identify any item which is not described by any other RIC code, at any level. This RIC shall always exist in all release versions.
- 7. The RIC **ZZZZZY** is used to identify any item for which the RIC has been deleted during a RIC update. This RIC shall always exist in all release versions.

3.2.1. Level Description

In the following the different levels of the RIC structure will be explained in more detail.

Level 1 – Main Group

The Main Group code defines the family code of the item. The second through sixth characters are different for each family (main group). The following Figure 1 illustrates the 18 different Main Groups defined in the RIC system at the time of writing.



Figure 3: Main Groups

Table 2 provides the description and composition for each of the Main Groups.

Code	Main Group	Description / Composition
A	Armour & Combat Vehicles	Wheeled or tracked armoured vehicles used in military inventories. Many of the armoured vehicles form the mobile platforms for various weapon delivery systems as well as performing a multitude of roles in support of the frontline, combat support and service support troops. All are characterized by varying degrees of armour protection for the crews, occupants and vital components. Armoured vehicles used in Artillery and Ground Based Air Defence primary roles are shown under those Main Groups. Also, armoured VIP vehicles are listed under the Vehicles & Logistics Main Group.
В	Infantry Weapon	Individual non-armoured or small calibre crew-served ground based weapons that are not part of a larger weapon. Equipment used in Artillery and Ground Based Air Defence primary roles shown under those Main Groups. Items that contain explosives are listed under the Munitions Main Group.
С	Artillery	All fixed or mobile ground based artillery guns, howitzers, rocket launchers and coastal defence systems used in support of combat forces. Items with a primary anti-tank or ground based air defence role are excluded. Mortars are listed under the Infantry Weapons Main Group.
D	Ground Based Air Defence	Ground based weapon platforms that have the primary purpose of destroying aircraft or other objects in flight. Weapons with a primary anti-tank, artillery or mortar role are excluded.

Code	Main Group	Description / Composition
E	Ships & Marine Eqpt (NSG 19, 20)	All sea-borne surface and underwater combatants, logistics, training and support vessels. Small boats used in support of land (e.g. inflatable boats) operations are listed under the Vehicles & Logistics Main Group.
Н	Aircraft	All fixed or rotary wing aircraft. Ancillary aircraft items are also listed under this Main Group.
K	Radar	All Radars and their supporting systems including training systems are listed under this Main Group.
L	Vehicle & Logistics	Vehicles & Logistics Main Group is a mixed class containing items not grouped under other Main Groups. Non-armoured ground vehicles, transportation and material handling equipment, engineer and support equipment, camouflage and decoy equipment, shelters and containers, fuel handling equipment and water supply equipment are listed under this Main Group.
М	Ammunition & Explosives (NSG 13)	Corresponds to NATO Class V Items that contain explosive or hazardous substances are listed under this Main Group. Launchers and shooting platforms are listed under the respective Main Groups. POL and gases not used in munitions are excluded.
N	CBRN (NSC 1040)	CBRN protection equipment not listed under other Main Groups.
Р	POL	Corresponds to NATO Class III. Petroleum fuels, oils and lubricants for all purposes except for use in weapons. Compressed and liquid gases, chemical products, coolants, de-icing and antifreeze compounds together with component additives to such products are also listed under this Main Group.
Q	Medical (NSG 65)	Medical material including special repair parts but excluding medical major end items listed under other Main Groups (e.g. ambulances). Items for which the medical usage is one of several design options may also be listed under another Main Group.
R	Electronic Warfare	Electronic Warfare systems that are not platforms. Platforms are listed under the respective Main Groups. Includes training systems.
S	Subsistence (NSG 89)	Corresponds to NATO Class I. Items that are consumed by personnel or animals including water, fresh or rationed food, gratuitous health and welfare and other personal demand items are listed under Subsistence Main Group.
Т	C4I	C4I systems that are not platforms. Platforms are listed under the respective Main Groups. Includes information systems, communication networks, intelligence gathering systems and computer systems (hardware and software).
U	Unmanned Vehicle and Drone	Aircraft or a vehicle without a human pilot/driver.
W	Waste	Any substance which is discarded after primary use, or it is worthless, defective and of no use

Code	Main Group	Description / Composition
Х	Live Animals (NSG 80)	Animals used for military purposes such as horses and dogs.
Υ	Personnel	Military and Civilian personnel.
Z	Unknown	Items whose characteristics are not known. The "Z" code should only be assigned temporarily during the investigation of the item's technical and functional characteristics. Once these are known, the item should be classified properly.

Table 2: Main Groups Descriptions and Compositions

Level 2 – Main Category

The main category defines the most general category of the item within each family of a main group. For example, the main categories under the Armour main group include: Tanks, Armoured Fighting Vehicles and Armoured Support Vehicles.

Level 3 – Functional Category

The functional category defines the function of the item within each main category. For example, the functional categories under the Tank main category are: Main Battle Tanks (MBT), and Light Tanks.

Level 4 - Sub-Category

The sub-category further breaks down the items in each functional category according to a relevant characteristic. For gun or cannon based weapon systems, this characteristic is the calibre of the gun or the cannon. For example, the sub-categories for the MBT functional category are: 84mm, 90mm, 105mm, 120mm, 125mm, 140mm and 152mm.

Level 5 - Type

This level lists all types' items under each sub-category. Only the basic types are listed and marks/brands and variants are excluded. For example, the types under the MBT 120mm sub-category are: Leopard-2, M1, Challenger, etc.

Level 6 – Sub-Type

Each distinct mark or variant for the item type is listed. For example, the sub-types under the MBT 120mm Leopard 2 type are: A2, A3, A4, A5, A6 and A6M.

3.2.2. RIC Structural Rules

Rule	Description
S1	RICs on level 1 do not have parents.
S2	Every RIC on level 2 to 6 has a parent in the next higher level.
S 3	Every branch of the RIC tree must go down to level 6. That means that every RIC on levels 1 to 5 has at least one child in the next lower level. If no other information is available then the child will be code "Z" with description "NOS".
S4	The following statements are equivalent: The maximum length of an RIC is 6 characters. No branch of the RIC tree has more than 6 levels. RICs on level 6 do not have children.
S5	The short description attribute of an RIC contains the short description attribute of the parent RIC plus additional characters unique under the parent (the short description part). Exception: Code "Z – NOS" does not add characters to the short description field.
S6	The code attribute of a RIC contains the code of the parent RIC plus one character unique under the parent.

Table 3: RIC Structural Rules

The rules allow a display as a tree with a depth of six.

These rules are pre- and post-conditions for any modification, but might be temporarily violated during the execution of modifications.

3.3. RIC ATTRIBUTES

The RIC codes have the attributes described in Table 4 below.

Column Name	Data Type	Allow NULL	Validation	Default
RICID	INTEGER	No	Non-negative	0
RIC	CHAR(6)	No	None	None
Parent RICID	INTEGER	Yes	None	None
Description	CHAR(50)	No	None	None
Short Description	CHAR(50)	Yes	None	None
Indicator	CHAR(1)	Yes	C Consumable M Munitions O Other Q Medical S Shooter T Transportation U Unknown No other values are valid	0
Unit Of Measure	CHAR(2)	No	None	EA (each)

Table 4: RIC Attributes

Each of these attributes is described in more detail below.

3.3.1. RICID

The RICID is a static, surrogate, primary key for the RICs. This means that a RIC, when created, is assigned a unique integer which never changes (between RIC versions) and is never re-used (even if the RIC is deleted).

All RICs and partial RICs are assigned RICIDs.

3.3.2. RIC

The RIC is the natural key for the Reportable Items and is the value that users will most often encounter.

3.3.3. Parent RICID

The RICID of the parent RIC in the 6-level hierarchy. For top level (level 1) RICs, the Parent RICID is NULL (empty).

A RIC is the RIC of its parent, with the addition of one character at end.

3.3.4. Description

For easy identification of each RIC each hierarchical level code is given a description (to a maximum of 50 characters). The complete ("full") description of an item is produced when all six levels of description are combined in sequence.

For example the description for RIC LA21CA would be:

Full Vehicle & Logistics – Vehicle – Truck (> 1500 KG) – Cargo – Up To **Description** 10 Tonne – Normal Mobility

Short Description

Each RIC is assigned a short description (up to 50 characters in length), which reflects the abbreviated RIC Full Description. Short descriptions are prefixed by an acronym³ to make it easier for the user to recognize specific items from the short description. The acronyms also provide an alternative way of searching certain operational characteristics. The short description will be defined by the RIC manager. The current acronyms are listed in Annex A.

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³ Some items use universally recognized military abbreviations which, if changed to a three letter format, would merely cause confusion (e.g. ATGW and EW). Therefore these remain unchanged. Although the acronyms are completed for most main groups, rationalization in the Ship, Aircraft and POL main areas is needed.

For example the short description for RIC LA21CA would be:

Short Description VL-VH-TRU>1.5t-CGO<10t-NRM

3.3.5. Indicator

Indicators are applied using a single character that indicates the item's main function. Currently seven different codes, as depicted in Table 5, could be applied⁴. The RIC indicator is shown in the RIC viewer.

Indicator Codes	Indicates
С	Consumables
M	Munitions
0	Other
Q	Medical
S	Shooter
Т	Transportation Asset
U	Unknown

Table 5: Indicator Codes

3.3.6. Unit of Measure

The management of RICs also encompasses the management of unit of measure codes, which are codified using a 2-character identifier (e.g. "LI" represents "Litres"). These codes are managed as part of the RIC update process. The unit of measure "EA" (representing "Each") is the default value and shall always exist.

3.4. RIC CHANGE REQUESTS

All users of RICs are invited to propose RIC change requests, which will be processed according to the RIC Change Management Process (see Section 2.3).

When requesting a modification, the aim is always to categorize items according to the following question:

"What is its essential characteristic describing a capability?"

Hence, there is no need for every item to be assigned its own RIC. The following example should provide clarification:

It is irrelevant to have a unique RIC for an "ATV, Mercedes", and a second RIC for an "ATV, Peugeot", however it is important in this case to request a RIC for a "Car, rough

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⁴ The indicator domain can be expanded as necessary.

terrain as sedan or estate/wagon". The capability should always be the focus of RIC codification.

RIC changes requests that are approved shall result in one or more RIC modification for the next release.

3.5. RIC MODIFICATIONS

In order to be a valuable tool the RIC needs to be unique, stable with a formal baseline, and be adaptable and upgradeable (under a controlled process) to define new capabilities or priorities.

There are five different modification types used to enhance the RIC structure: ADD, UPD, MOV, DEL and MRG. Table 3 explains these different modification types in more detail including its short description.

Action	Definition	Description
ADD	Addition of new RIC	The action ADD adds a new RIC into the RIC structure including all required fields.
UPD	Update of a RIC	The action UPD changes all fields of an existing, however, the RIC itself remains. If a change of the RIC is required then use MOVE.
MOV	New destination of a RIC in the RIC structure	The action MOV transfers one RIC in the tree structure to another parent. If any other data field to be modified then use UPD.
DEL	Deletion of a RIC	The action DEL deletes the RIC in the tree structure including all children. Items using this RIC will be coded ZZZZZY in order to indicate that the underlying RIC was deleted.
MRG	Merger of two RICs into one	The action MRG merges one dying RIC into one surviving RIC in the tree structure. The items referring to the dying RIC will be coded with the surviving RIC.

Table 6: RIC Structure Modification Types

In order to validate a RIC Request / RIC Change Request, a description explaining the operational characteristics of an item, and how it differs from existing RICs in the

existing RIC structure, is required from the user. Only then it can be assessed if this is a new capability or is represented by a RIC currently existing in the RIC structure.

An example for a RIC Request / RIC Change Request template and its use is in Annex B. Only relevant parts of the RICs are required (trailing Zs can be omitted). When requesting a new RIC or RIC changes, Internet links to the applicable source of data (example Jane's Defence Magazine) should be provided whenever available in order to facilitate the validation process. Additional information, such as the NATO Stock Number, manufacturer's data sheets, etc. are also valuable sources for supporting RIC Change Requests.

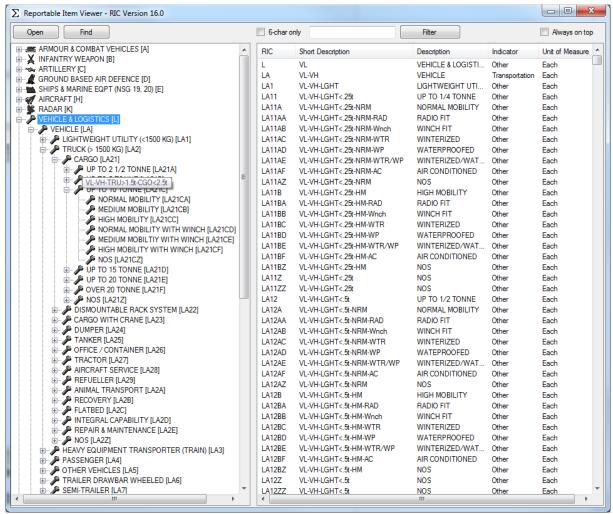


Figure 4: Example RIC Viewer Snapshot

3.6. RIC DELETION PROCESS

As outlined above, deleting RICs (DEL) is one of the options the RIC Request / RIC Change Request procedure offers, but it is the most crucial one. Deletion of a RIC will

change the RIC tree structure including all "Children" belonging to that RIC⁵. Therefore, the following deletion process for RICs must be followed:

- (1) Since the RIC structure should be user driven, every RIC user is allowed to request the deletion of a RIC in order to keep the RIC tree structure continuously improved and up-to-date. A justification for the deletion of a specific item could be that it is no longer in use. RIC users have to state a RIC candidate for deletion using the RIC Request / RIC Change Request Template (see Annex B). The request has to be submitted to the RIC Manager via the appointed National or NCS RIC Coordinator.
- (2) The RIC Manager will check if the requested deletion is generally acceptable (provided format). Every specified RIC candidate for deletion will be earmarked for deletion and a target deletion date will be allocated to that RIC deletion request.
- (3) RICs earmarked for deletion will be collected in a RIC Deletion Candidate List published on LOGNET Web Site under the RIC section by the RIC Manager. This list shall be published four months prior to the release of a new RIC version and will contain the following information:
 - RIC deletion requester,
 - RIC deletion candidate,
 - Target deletion date,
 - Current status with possible remarks,
 - Final approval for deletion by the LOGREP WG.
- (4) The fixed deletion dates of 30th June and 31st December have been established. Therefore, the RIC requests for deletion must be submitted to the RIC Manager not later than 28th February and 31st August of the calendar year respectively.
- (5) Chairmen of the LOGREP WG, Stockpile Planning Committee (SPC) and LOGFAS M&T WG are obliged to deal with the RIC deletion in their respective meetings on a continuous basis as an agenda item in order to allow Nations/NCS the forum for objections. Decision sheets from those respective meetings will be clearly annotated with those objections and submitted to RIC Executive Officer. Nations not attending these meetings need to break silence in a formal letter to the RIC Executive Officer via their RIC Coordinator.

⁵ The RIC tree structure is a Parent – Children relationship. This kind of naming is commonly used in information systems. A "Parent RIC" of a RIC is the RIC without the right – most character. A "Child RIC" of a RIC is the RIC plus one additional character on the right. Example: RIC AA (ARM-TNK): The second A (TNK) is the "Child" of the first A (ARM) as "Parent".

- (6) The RIC Executive Officer will inform the RIC Manager on objections to the Deletion Candidate list.
- (7) The RIC Manager will update the RIC Deletion Candidate list on a continuous basis and brief the LOGREP WG about the proposed RIC deletion candidates at each meeting. The LOGREP WG will officially approve formally the proposed deletion.
- (8) Finally, the RIC Manager will execute deletion in the next RIC version.

3.7. ALGORITHMS

- 1. Every modification described in the logical view requires one or more recordlevel commands to be executed.
- 2. The records in the RIC table must follow certain rules. It might be necessary to temporarily violate these rules during the RIC update process, but upon the completion of every logical modification the rules must be obeyed. That requires corrective action after the execution of certain commands.
- 3. The rules and algorithms are described in detail in the RIC Specification (Ref [D]).

3.8. RIC UPDATE

Whenever a new RIC version is released a RIC update file is provided to upgrade from older versions to the latest version. The user can use a tool to process that RIC update file. For example in LogFAS (Logistics Functional Area Services) that tool is called "RIC Updater", which is a specific configuration of the general "Reference Data Updater" library. The RIC updater tool is a re-usable product that can be built into other applications. The format of the RIC update file is defined by a version controlled XSD file managed by NCIA as part of the Reference Data Management process.

The RIC updater tool:

- Reads the RIC Update file
- Executes the changes
- Compares the resulting list with the new master list that is part of the RIC update file and enforces compliance, if required.

The RIC update file consists of the following main elements:

 Header. This element contains information about the format version, the RIC version to be updated, the updated RIC version and the number of modifications.

- List of commands. This element lists all commands to modify individual records in chronological order.
- Master list of RICs. This element contains the complete new RIC version.
 It is used by the RIC updater to verify that all modifications of the RICs were executed correctly and that the updated old RIC version is equal to the new RIC version.
- Master list of UoMs. This element contains the complete new UoM list. It
 is used by the RIC updater to verify that all modifications of the UoMs
 were executed correctly and that the updated old UoM list is equal to the
 new UoM list.

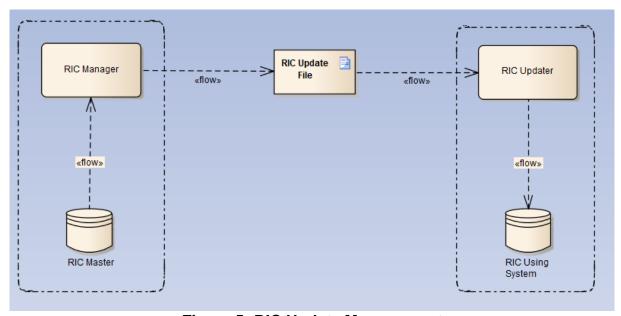


Figure 5: RIC Update Management

CHAPTER 4 RIC SPECIFICS

4.1. RELATIONSHIP WITH NSN

- 1. The NATO Stock Number (NSN) is a 13-digit numeric code identifying all the 'standardized material items of supply' as they have been recognized by all NATO countries. Several non-NATO nations have also adopted the NSN for inventory management.
- 2. The system domain covers a wide range of items that range from food rations to aircraft carriers. It has to be pointed out that the scope of the RIC system is always focused on the item's operational characteristics. Therefore, RICs are neither intended to duplicate NATO Stock Numbers (NSN) nor part/serial numbers.
- **3.** Additionally, items assigned a RIC are not limited to those found in NATO nations' respective inventories, but also those items of interest from other countries that may be used in a NATO led operation.
- **4.** The overlap between the RICs and NSNs has been identified as the relationship between the NSC (NATO Supply Class) or NSG (NATO Supply Group) and the RIC "branches" (usually at 3rd or 4th level). The NSN itself is a national-specific code (i.e. the same item will have a different NSN for each nation making it), whereas the RIC is by design common across all nations.
- **5.** Due to the differences in the way that the two codification systems have evolved, the following rules apply:
 - The relationship is not homogenous (it is many-to-many)
 - o A RIC-branch may map to multiple NSCs
 - o An NSC may map to multiple RIC branches
 - The relationship is not comprehensive
 - There will be RIC-branches without any NSC mapping
 - o There will be NSCs without any RIC-branch mapping
- **6.** The technical report on RIC-NSN Interface at Ref [E] (Linkage of Reportable Item Codes (RIC) and NATO Stock Numbers (NSN)) describes the efforts under way for the implementation of RIC-NSN NATO Web Service Interface. This interface will enable the mapping of RICs to NSNs (at the NSC/NSG level) and vice versa.

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ANNEX A CONSTRUCTION of RICs

A.1. Introduction

System managers wishing to implement RICs within their system should follow the instructions presented here. By following these standards, their system shall be able to utilise the RIC Updater and the RIC Update Files.

A.2. Tables

There are two tables to be centrally controlled:

- Table "ReportableItem": Self-referencing to represent the RIC structure. It contains full and partial RICs.
- Table "UnitOfMeasure": Contains all valid units of measurement.

One additional table is needed to contain information about the current RIC version:

• Table "Version": Contains one record that represents the actual RIC version loaded in the table "ReportableItem". This table may also be used to store version information for other data sets.

A.2.1. Table: ReportableItem

A.2.1.1 Columns

Column Name	Data	Allow	PK	FK	Validation	Default	Attribute
	Type	NULL					
ReportableItemCodeID	INTEGER	No	Yes	No	Non-negative	0	RIC ID
ReportableItemCode	CHAR(6)	No	No	No	None	None	RIC Code
ParentReportableItemCodeID	INTEGER	Yes	No	Yes ⁶	None	None	Parent of RIC
Description	CHAR(50)	No	No	No	None	None	Description
ShortDescription	CHAR(50)	Yes	No	No	None	None	Short Description
ReportableItemIndicator	CHAR(1)	Yes	No	No	C Consumable M Munitions O Other Q Medical S Shooter T Transportation U Unknown No other values are valid	0	Indicator
UnitOfMeasureCode	CHAR(2)	No	No	Yes ⁷		EA	Unit of Measure

Table 7: ReportableItem Table Columns

A.2.1.2 Triggers

⁶ ReportableItem:ReportableItemCodeID

⁷ UnitOfMeasure:Code

None: This is mandatory in order to enable the RIC updater program to make necessary modifications.

A.2.1.3 Constraints

None: This is mandatory in order to enable the RIC updater program to make necessary modifications.

A.2.1.4 Data Guarantees

These guarantees exist during "normal" database use. During RIC updates they might be temporarily violated and therefore they cannot become constraints.

- Length (Reportable Item Code) = length (Parent Reportable Item Code)+1 Specifically, Reportable Item Code is the Parent Reportable Item Code plus one character.
 - The parent of 1-char RICs is NULL
 - RICs "ZZZZZZ" (RIC ID = 19624) and "ZZZZZY" (RIC ID = 19623) will always be present, because of their special meaning (see paragraph 3.2):
 - o "ZZZZZZ" means "Not otherwise specified".
 - "ZZZZY" means "Original RIC was deleted during one of the last RIC updates". See as well Section A.2.1.5 for related rules.

A.2.1.5 Rules for Referencing Tables

Systems that use RICs typically have tables that refer to the table "ReportableItem" in order to ensure referential integrity. E.g. a table that stores "items" whose capability is coded with RICs will have a foreign key that refers to the table "ReportableItem" to ensure that items refer to valid RICs only. The rules for those referencing tables are:

- Deletion of RIC during RIC update: Whenever an RIC is deleted during an RIC update then referencing tables might do one of the following:
 - Change their foreign key RIC to the RIC ID of <u>19623</u> ("ZZZZZY") (e.g. ON DELETE SET <u>19623</u>). (For the meaning of "ZZZZZY" please see paragraph 3.2). This will prevent the loss of data in referencing tables.
 - Delete the referencing value (e.g. ON DELETE SET NULL). This is equal to removing the reference for that record to the RIC table.
 - Delete the whole record that contains the referencing value (e.g. ON DELETE CASCADE). This means that e.g. any item that is coded with the to-be-deleted RIC will be deleted.
- There must not be an "ON DELETE RESTRICT" statement in relationships to the tables "ReportableItem".

A.2.2. Table: UnitOfMeasure

A.2.2.1 Columns

Column Name	Data	Allow	PK	FK	Validation	Default	Attribute
	Type	NULL					
Code	CHAR(2)	No	Yes	No	None	None	Unit of Measure Code
Term	CHAR(25)	No	No	No	None	None	Full name for unit of
							measure

Table 8: UnitOfMeasure Table Columns

A.2.2.2 Triggers

None: This is mandatory in order to enable the RIC updater program to make necessary modifications.

A.2.2.3 Constraints

None: This is mandatory in order to enable the RIC updater program to make necessary modifications.

A.2.2.4 Data Guarantees

These guarantees exist during "normal" database use. During RIC updates they might be temporarily violated and therefore they cannot become constraints.

• Unit of Measure "EA" always exists (see section 3.2).

A.2.2.5 Rules for Referencing Tables

Systems that use Units of Measure (UoM) typically have tables that refer to the table "UnitOfMeasure" in order to ensure referential integrity. E.g. a table that stores "items" whose unit of measure is coded with UoMs will have a foreign key that refers to the table "UnitOfMeasure" to ensure that items refer to valid UoMs only. The rules for those referencing tables are:

- Deletion of UoM during RIC update: Whenever a UoM is deleted during an RIC update then referencing tables might do one of the following:
 - Change their foreign key UoM to the UoM of "EA" (e.g. ON DELETE SET 'EA'). This will prevent the loss of data in referencing tables.
 - Delete the referencing value (e.g. ON DELETE SET NULL). This is equal to removing the reference for that record to the UnitOfMeasure table.
 - Delete the whole record that contains the referencing value (e.g. ON DELETE CASCADE). This means that e.g. any item that is coded with the to-be-deleted UoM will be deleted.
- There must not be an "ON DELETE RESTRICT" statement in relationships to the table "UnitOfMeasure".

A.2.3. Table: Version

A.2.3.1 Columns

Column Name	Data Type	Allow NULL	PK	FK	Validation	Default	Attribute
Item	CHAR(20)	No	Yes	No	None	None	Exactly one record contains "RIC" in this field, to identify the record that contains the current RIC version number
Value	CHAR(10)	No	No	No	None	None	Version number of the RIC version loaded into table "ReportableItem"

Table 9: Version Table Columns

A.2.3.2 Triggers

None: This is mandatory in order to enable the RIC updater program to make necessary modifications.

A.2.3.3 Constraints

None: This is mandatory in order to enable the RIC updater program to make necessary modifications.

A.2.3.4 Data Guarantees

These guarantees exist during "normal" database use. During RIC updates they might be temporarily violated and therefore they cannot become constraints.

• At any time there is exactly one record for which the field "item" contains the string "RIC".

A.2.3.5 Rules for Referencing Tables

None.

A.3. Relationships

A.3.1.1 Relationship of "ReportableItem" table to "ReportableItem" table

Characteristic	Description
Parent Field	Reportable Item: Reportable Item Code ID
Child Field (FK)	Reportable Item: Parent Reportable Item Code ID
Relationship Type	[0 or 1] to [0 or more]
Relationship Description	1 Reportable Item Code is parent of [0 or more] Reportable Item Codes 1 Reportable Item Code can have [0 or 1] Reportable Item Codes as parents See Section 3.2.2, S1 and S2.
On Parent Update	Cascade
On Parent Delete	Cascade

Table 10: ReportableItem-ReportableItem Relationship

A.3.1.2 Relationship of "UnitOfMeasure" table to "ReportableItem" table

Characteristic	Description
Parent Field	Unit of Measure: Code
Child Field (FK)	Reportable Item: Unit of Measure Code
Relationship	1 to [0 or more]
Relationship Description	1 Unit of Measure is measurement for [0 or more] Reportable Items 1 Reportable Item is measured in 1 Unit of Measure
On Parent Update	Cascade
On Parent Delete	Restrict

Table 11: UnitOfMeasure-ReportableItem Relationship

A.4. SQL Creation Statements

For clarification possible SQL creation statements are listed below. There is one statement per table and relationship. These statements can be combined.

A pseudo-language is used for the description. SQL statements vary for different database engines.

// Creation of table ReportableItem

CREATE TABLE ReportableItem (

ReportableItemCodeID INTEGER NOT NULL PRIMARY KEY

ReportableItemCode CHAR (6) NOT NULL

ParentReportableItemCodeID INTEGER

ReportableItemIndicator CHAR (1) DEFAULT 'O'

CHECK (ReportableItemIndicator IN ('C', 'M', 'O', 'Q', 'S', 'T', 'U'))

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Edition A Version 1

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Description CHAR (50) NOT NULL

ShortDescription CHAR (50)

UnitOfMeasureCode CHAR (2) DEFAULT 'EA')

// Creation of Relationship ReportableItem to ReportableItem

ALTER TABLE ReportableItem

ADD FOREIGN KEY (ParentReportableItemCodeID)

REFERENCES Reportable Item (ReportableItemCodeID)

ON DELETE CASCADE ON UPDATE CASCADE

// Creation of table UnitOfMeasure

CREATE TABLE UnitOfMeasure (

Code CHAR (2) NOT NULL PRIMARY KEY

Term CHAR (25) NOT NULL)

// Creation of Relationship ReportableItem to UnitOfMeasure

ALTER TABLE ReportableItem (

ADD FOREIGN KEY (UnitOfMeasureCode)

REFERENCES UnitOfMeasure (Code)

ON UPDATE CASCADE ON DELETE RESTRICT)

// Creation of table Version

CREATE TABLE Version (

Item CHAR (20) NOT NULL PRIMARY KEY

Value CHAR (10) NOT NULL)

A.5. RIC Updater Software

System managers should contact the RIC Manager to obtain the latest RIC Updater software, as well as technical information and advice on how to integrate it with their system.

ANNEX B RIC CHANGE REQUEST FORM

RIC Users who wish to submit a request for a RIC change (addition, update, deletion, move or merge) may do so by using the RIC Change Request Form. This form is an MS Excel workbook and should be completed and sent to the RIC Executive Officer.

The RIC Change Request Form may be found on LOGNET under the "Background Data > RIC" section.

The RIC Change Request Form has the following appearance:

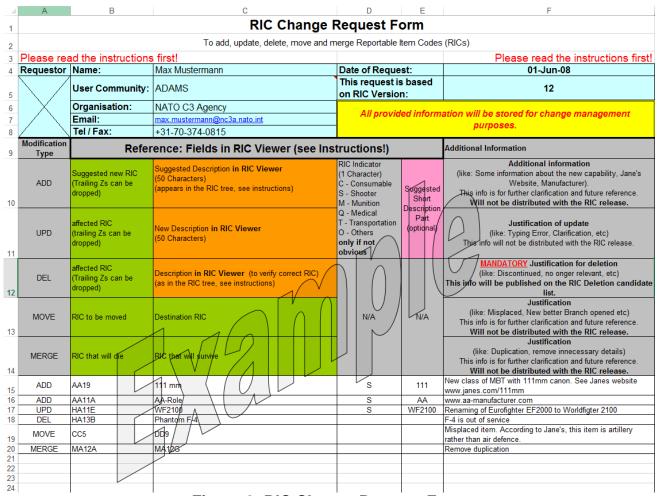


Figure 6: RIC Change Request Form

ANNEX C ACRONYMS & ABBREVIATIONS

Acronym	Description
NOS	Not Otherwise Specified
12G	12-GAUGE
2SURV	SECONDARY
250RV	SURVEILLANCE
A_FLM	AERIAL FILM
AA	AIR-TO-AIR
AAA/SAM	AAA/SAM COMBINED
AAG	ANTI-AIRCRAFT GUN
ABRN	AIRBORNE
AC	AIRCRAFT
ACT	AIRCRAFT TURBINE
ADR	AIR DEFENCE RADAR
AE	AEROMEDICAL
AE	EVACUATION (AE)
AF	ANTIFREEZE
AFV	ARMOURED FIGHTING
AFV	VEHICLE
AIR	AIR FORCE
ALnch	AIR LAUNCHED
Λmn	AMPHIBIOUS
Amp	WARFARE SHIPS
AMPH	AMPHIBIAN
	ANTI-NERVE AGENT
ANA	PROPHYLACTIC
	DRUGS
ANC	ANCILLARY ITEM
ANIMAL	ANIMAL
APers	ANTI-PERSONNEL
711 013	MINES
Apt	AIRPORT
AreaDenial	AREA DENIAL
ARM	ANTI-RADAR
ARM	ARMOUR
ARM	ARMY
ART	ARTILLERY
ASB	ANTI-SUBMARINE
ASLNCH	ANTI-SHIP MISSILE
7.0214011	LAUNCHER
ASM	AIR SPACE
/ (OIVI	MANAGEMENT

ASMM ASP ASPSB ASS AST AST ASURV ASV	AIR FIELD SURFACE MOVEMENT MANAGEMENT ANTI-SHIP ANTI-SHIP/ANTI- SUBMARINE AIR/SURFACE SEARCH ANTISEIZE TAPE ARMOURED SUPPORT TRAILER AIR SURVEILLANCE ARMOURED SUPPORT VEHICLE ANTI-TANK
ASP ASPSB ASS AST AST ASURV ASV	MOVEMENT MANAGEMENT ANTI-SHIP ANTI-SHIP/ANTI- SUBMARINE AIR/SURFACE SEARCH ANTISEIZE TAPE ARMOURED SUPPORT TRAILER AIR SURVEILLANCE ARMOURED SUPPORT VEHICLE ANTI-TANK
ASP ASPSB ASS AST AST ASURV ASV	MANAGEMENT ANTI-SHIP ANTI-SHIP/ANTI- SUBMARINE AIR/SURFACE SEARCH ANTISEIZE TAPE ARMOURED SUPPORT TRAILER AIR SURVEILLANCE ARMOURED SUPPORT VEHICLE ANTI-TANK
ASPSB ASS AST AST ASurv ASV	ANTI-SHIP ANTI-SHIP/ANTI- SUBMARINE AIR/SURFACE SEARCH ANTISEIZE TAPE ARMOURED SUPPORT TRAILER AIR SURVEILLANCE ARMOURED SUPPORT VEHICLE ANTI-TANK
ASPSB ASS AST AST ASurv ASV	ANTI-SHIP/ANTI- SUBMARINE AIR/SURFACE SEARCH ANTISEIZE TAPE ARMOURED SUPPORT TRAILER AIR SURVEILLANCE ARMOURED SUPPORT VEHICLE ANTI-TANK
ASS AST AST ASurv ASV	SUBMARINE AIR/SURFACE SEARCH ANTISEIZE TAPE ARMOURED SUPPORT TRAILER AIR SURVEILLANCE ARMOURED SUPPORT VEHICLE ANTI-TANK
AST AST ASurv ASV	AIR/SURFACE SEARCH ANTISEIZE TAPE ARMOURED SUPPORT TRAILER AIR SURVEILLANCE ARMOURED SUPPORT VEHICLE ANTI-TANK
AST AST ASurv ASV	SEARCH ANTISEIZE TAPE ARMOURED SUPPORT TRAILER AIR SURVEILLANCE ARMOURED SUPPORT VEHICLE ANTI-TANK
AST ASurv ASV	ANTISEIZE TAPE ARMOURED SUPPORT TRAILER AIR SURVEILLANCE ARMOURED SUPPORT VEHICLE ANTI-TANK
AST ASurv ASV	ARMOURED SUPPORT TRAILER AIR SURVEILLANCE ARMOURED SUPPORT VEHICLE ANTI-TANK
ASurv ASV	TRAILER AIR SURVEILLANCE ARMOURED SUPPORT VEHICLE ANTI-TANK
ASurv ASV	AIR SURVEILLANCE ARMOURED SUPPORT VEHICLE ANTI-TANK
ASV	ARMOURED SUPPORT VEHICLE ANTI-TANK
_	VEHICLE ANTI-TANK
_	ANTI-TANK
AT	
AT	ANTI-TANK MINES
ATGW	ATGW
ATM	AIR TRAFFIC
/ \ 1 \ \ 1	MANAGEMENT
ATM	AUTONOMOUS
ATIVI	SYSTEM
ATRANS	AUTOMATIC
ATRANO	TRANSMISSION
ATROP	ATROPINE SYRETTE
ATT	ATTACK
AUT/ART	AUTOMOTIVE &
AUTAKT	ARTILLERY
	AUTONOMOUS
AUV	UNDERSEA VEHICLE
	(AUV)
AUX	AUXILIARY
AW	ANTIWEAR
BFS	BATTLEFIELD
DFO	SURVEILLANCE
Blk	BULK
Bmb	BOMB
	BALLISTIC MISSILE
BMW	WARNING AND
	ACQUISITION
Boy	SONOBUOY SYSTEMS
BRG	BRIDGING SYSTEM
BRK	BRAKE FLUID
BMW Boy BRG	BOMB BALLISTIC MISSILE WARNING AND ACQUISITION SONOBUOY SYSTEMS BRIDGING SYSTEM

Acronym	Description
BTS	OVERBOOTS
C4I	C4I
CAN	CANNISTER
CAN	CANNON
CAR	CARRIER
CBT	COMBAT
CBU	CLUSTER
	COMBAT DATA
CDS	SYSTEMS
Chem	CHEMICAL
	CHEMICAL VAPOR
ChemVapor	CONFIRMATION KIT
	COMMAND
CIS	INFORMATION
010	SYSTEM
CIV	CIVILIAN
	CHLORINATED
CL	SILICONE
CLPS	COLLAPSIBLE TANK
Clr	MINE CLEARANCE
CMD	COMMAND
CMF	CAMOUFLAGE
Civir	CAMOUFLAGE &
CMF	DECOY EQUIPMENT
CMP	COMPOUNDED
CMPD	COMPOUND
CND	CANNED GOODS
	COAST GUARD
COAST	COMMUNICATION
COM	
COMP	NETWORK
COMP	COMPUTER SYSTEM
CONT	CONTAINER HANDLER
CONTR	CONTRACTOR
COOL	COOLANT
CORPREV	CORROSION
	PREVENTIVE
CRN	CRANE
CRP	CROP SPRAYING
Crt	CARTRIDGE
CRWD	CROWD CONTROL
CRYO	CRYOGENIC
CSTL	COASTAL
CTR	CONTAINER
CUT	CUTTING FLUID
CWIS	CWIS

	ALP-17
Acronym	Description
CWS	COLLISION WARNING
OVVO	SYSTEM
DDS	DATA DISPLAY
טטט	SYSTEMS
Doggo	DECONTAM KIT &
Decon	ANTIDOTE
Dagan	DECONTAMINATION
Decon	EQUIPMENT
	PERSONAL
Decon	DECONTAMINATION
	KIT
Damal	DEMOLUTION
Demol	MATERIAL
DENT	DENTAL
Depth	DEPTH
	DETECTION DEVICE &
Det	IDENTIFICATION
	EQUIPMENT
Dip	DIPPING SONARS
•	DISCHARGER
Dis	LAUNCHED
Dism	DISMOUNTABLE
Disp	DISPENSER
DME	DUMMY TARGET
DOG	DOG
DOS	DOSIMETER
DRONE	DRONE
DRY	DRY GOODS
DSL	DIESEL
DTNK	DROP TANKS
DINK	CONSTRUCTION &
ECF	FIELD FORTIFICATION
ECM	ECM - SONAR
ECM CP	ECM SYSTEMS
ECM_CB	ECM - COMBINED
ECM_CM	ECM -
	COMMUNICATION
ECM_IR	ECM - INFRARED
ECM_RDR	ECM - RADAR
ECW	EW/CMD/WPN
_	CONTROL SYSTEM
EMT	MATTING &
	TRACKWAY
EMUL	EMULSIFYING
EMW	MINE WARFARE
ENG	ENGINE

Acronym	Description
ENG	ENGINEER
	ENGINEER &
ENG	SUPPORT EQUIPMENT
ENG	ENGINES
EOD	EOD
EQSPT	EQUIPMENT SUPPORT
-,-	SPECIALIST /
ESE	SUPPORT EQUIPMENT
ESM	ESM SYSTEMS
LOW	ESM - DIRECTION
ESMDF	FINDING
ESMG	ESM - GENERAL
ESMI	ESM - INTELLIGENCE
ESIVII	ESM - THREAT
ESMTW	WARNING
ETH	
EIN	ELECTRONIC
EW	ELECTRONIC
EMO.	WARFARE
EWS	EW SYSTEM
Exp	EXPLOSIVES
F&P	FUZE AND PRIMER
F/A-Expl	FUEL/ AIR EXPLOSIVE
FArt	FIELD ARTILLERY
FC	FIRE CONTROL
FD	FOOD
FemH	ITEMS FOR FEMALE
1 011111	HYGENE
FHE	FUEL HANDLING
1116	EQUIPMENT
Fire	FIRE
FIRE	FIREFIGHTING
Fix	FIXED SONARS
1 1/	SYSTEMS
FLA	FUEL ADDITIVE
FLD	FLUID
Frag	FRAGMENTATION
FRK	FORKLIFT
FSH	FRESH
ECTnl.	FLEXIBLE STORAGE
FSTnk	TANK
FUEL	FUEL
FW	FIXED WING
FX	FIXED TANK
G&H	GUN & HOWITZER
G/C	GUN/CANNON
GAS	GAS
_ 	- · · · · ·

	ALT-11
Acronym	Description
GAS	GASEOUS
GAT	GATLING
	GROUND BASED AIR
GBAD	DEFENCE
	GROUND
GCI	CONTROLLED
GCI	INTERCEPTION
CEAD	
GEAR	GEAR
GEN	GENERAL USE
GenP	GENERAL-PURPOSE
GLnch	GROUND LAUNCHED
GOV	NATIONAL
00 V	GOVERNMENT
GP	GENERAL PURPOSE
GPOD	GUN POD
Grd	GROUND
GRLNCH	GRENADE LAUNCHER
	GRENADE/PYROTECH
Grn	NIC
GRND	GROUND BASED
	GRAPHITE
GRPHT	-
GRS	GREASE
GSL	GASOLINE
GUARD	GUARD
Guid	GUIDED
GUID	GUIDED MISSILE
GOID	SYSTEM
GUN	CANNON/GUN
GUN	GUN
Hand	HAND
HD	HAND
	HELICOPTER
HELI	TRANSPORTABLE
11221	CONTAINER
	HELICOPTER
HELI	TRANSPORTABLE
ПЕЦ	
	TANK
	HEAVY EQUIPMENT
HET	TRANSPORTER
	(TRAIN)
HFND	HEIGHT FINDING
HORSE	HORSE (INCL. MULES,
TIONOL	ETC)
HPL	HAND PALLET LIFTER
HVY	HEAVY
	ı

Acronym	Description
Hw	COMPUTER
ПVV	HARDWARE
HYD	HYDRAULIC FLUID
HYDZ	HYDRAZINE
	INTERFACE
IFSDH	SENSOR/DATA
	HANDLING
11.1	ILLUMINATING
ILL	SYSTEM
INF	INFANTRY WEAPON
InfEq	INFANTRY
шеч	EQUIPMENT
INS_OIL	INSULATING OIL
INST	INSTRUMENT
INT	INTELLIGENCE
IINI	GATHERING SYSTEM
In 4D	INTRUDER
IntD	DETECTION
IntS	INTEGRATED SYSTEM
INTSEC	INTERIOR SECURITY
ISO	ISOPROPANOL
ISOPROP N	ISOPROPYL NITRATE
JOINT	JOINT/HQ
KERO	KEROSENE
LAttack	LAND ATTACK
Leafl	LEAFLET
LGHT	LIGHT
	LIGHTWEIGHT UTILITY
LGHT	(<1500 KG)
LIQ	LIQUIFIED
LND	LAND BASED
LOG	LOGISTICS SHIPS
	LONG RANGE
LR	(>150KM)
I DEW	LONG RANGE EARLY
LREW	WARNING
Lsr	LASER GUIDED
	LIGHT SUPPORT
LSW	WEAPON
LTA	LIGHTER THAN AIR
LIA	CRAFT
LTK	LIGHT TANK
LUB	LUBRICANT
LUB	LUBRICANT CLEANER
LUB	AND PRESERVATIVE
LUB	LUBRICATING OIL
·	

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Acronym	Description
MAR	MARINE GAS TURBINE
MAR	MARINES
MAR	MARITIME
MAR	MARITIME ASSET
MBT	MBT
MC	MINE CLEARANCE
MCBT	MAJOR COMBATANT
MCM	MCM SONARS
MED	MEDICAL
MED	MEDICAL AID STATION
MED	MEDIUM
METH	METHANOL
MF	MULTI-FUNCTION
IVII	MORTAR FIRE
MFC	CONTROL
MG	MACHINE GUN
	MATERIAL HANDLING
MHE	EQUIPMENT
MIL	MILITARY
IVIIL	MINE & MINE
Mine	DISPOSAL
MINE	MINE WARFARE
MIS	MISSILE SYSTEM
IVIIO	MISCELLANEOUS
Misc	SONAR SYSTEMS
ML	MINE LAYING
	MOLYBDENUM
MOLY	DISULFIDE
	MONITOR (LIQUID
Mon	AGENT)
MOR	MORTAR
MP	MAN PORTABLE
MP	MULTI-PURPOSE
	MULTI-PURPOSE
MP	ASSET
	MEDIUM RANGE (75-
MR	150KM)
MS	MULTI-SERVICE
MS	MULTI-SYSTEM
MsI	MISSILE
MSL	MISSILE GUIDANCE
MSL	MISSILE LAUNCHER
Mun	MUNITIONS
MW	MINE WARFARE
	VESSELS
MW	MW SYSTEM
L	

Acronym	Description
N ACID	NITRIC ACID
NATO	NATO
NAV	NAVAL
NAV	NAVAL DIESEL
	NAVAL AND COSTAL
Nav&CstGun	GUN
NAVY	NAVY
NBC	NBC
NET	NETWORK DEVICE
	NON-ARMOURED
NFV	FIGHTING VEHICLE
NG	NAVAL GUN
	NON GOVERNMENTAL
NGO	ORGANISATION (NGO)
	NON-GUIDED
NGUID	WEAPON
NGun	NAVAL GUN
	NON-LETHAL WEAPON
NLW	/ LESS LETHAL
	WEAPON
NPTB	NON-POTABLE
NRID	NON-RIDGID
OCBT	OTHER COMBATANT
OIL	OIL
	ORDNANCE
ORD	LAUNCHER
0 10:	ORDNANCE DISPOSAL
OrdDis	TOOL
OTH	OTHER SHIP
OTH	OTHER AIRCRAFT
OTH	OTHER VEHICLES
PACK	PACK
	PORTABLE
PDec	DECONTAMINATION
	APPARATUS
Pen	PENETRATION
PERFL	PERFLUORINATED
Peri	PERIPHERAL DEVICE
	PERSONAL
PERP	PROTECTION
PERS	PERSONNEL
PET	PETROLATUM
PET	PETROLEUM
PHE	PHOSPHATE ESTER
	CROSS COUNTRY
PIP	PIPELINE

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Acronym	Description
PIP/H	PIPELINE / HOSE
-	PLUG VALVE
PlugV	
PMP	PUMP
POL	POL
POL	POLICE
POW	POWER
1 0 1 1	
PR	PR SURFACE
	COMBATANTS
Pract	PRACTICE
PrecLS	PRECISION
	APPROACH/LANDING
I IGCLO	
	SYSTEMS
PRIS	PRISONERS OF WAR
1 100	(POW)
PROP	PROPELLANT
PropCh	PROPELLING CHARGE
Гюроп	
ProtSM	PROTECTIVE SUIT &
1 1010111	MASK
PRT	PORTABLE
PSGR	PASSENGER
PST	PISTOL
PTB	POTABLE
PV	PATROL VESSELS
D) (D	PYROTECHNIC
PYR	EQUIPMENT
R1	ROLE 1
R2	ROLE 2
R3	ROLE 3
R4	ROLE 4
RCH	REVOLVING CHAMBER
RDR	RADAR
REC	RECCE
REC	RECCE PODS
REC	RECONNAISSANCE
REF	REFRIGERANT
11	REFRIGERANT
REF	_
	COMPRESSOR
REF	REFRIGERATED
REF	REFUGEE
RES	RESIDUAL
1,20	
RespAC	RESPIRATOR
	AIRCREW
PoonCC	RESPIRATOR
RespCG	GROUNCREW
RID	RIDGID
RIF	RIFLE
NIF	NIFLE

Acronym	Description
Rkt	ROCKET
RKTLNCH	ROCKET LAUNCHER
RL	RECOILESS RIFLE
RLNCH	ROCKET LAUNCHER
	RIFLE/PISTOL
RPLnch	LAUNCHED
	REMOTE PILOTED
RPV	VEHICLE
RR	RECOULESS RIFLE
RST	RIGID STORAGE TANK
RT	RATION
RTS	RATION SUPPLEMENT
RW	ROTARY WING
S TWD	STATIC AND TOWED
SA	SMALL ARMS
SA	SURFACE-TO-AIR
	SURFACE-TO-AIR
SAM	MISSILE LAUNCHER
	SURFACE/AIR
SASFC	SEARCH/FIRE
	CONTROL
0.10	SATELLITE
SatSurv	SURVEILLANCE
SBOY	SONAR BOUYS
SC	SUPPORT CRAFT
SDP	SUNDRIES PACK
Sea	SEA MINES
SeaMDisp	SEA MINE DISPOSAL
'	SENSORS &
SENS	ELECTRONICS
Ct-	SURFACE SHIP
Sfc	SONARS
SFL	SEMI-FLUID
SH	SHELTER
CLIOCT	SHELTER &
SH&CT	CONTAINER
Cha	SHELTER & SHELTER
She	FILTERATION
Shl	SHELL
SHP	SHIP
SIG	SIGNAL PISTOL
SIGHT	SIGHTING EQUIPMENT
SLED	SLED
SLF	SELF PROPELLED
SMA	SMALL ARM
SMG	SUB-MACHINE GUN
SMA	SMALL ARM

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Acronym	Description
SNIF	SNIFFER
SOF	SOF
SOL	SOLID
SOLV	SOLVENT
SON	SONAR
0011	SPECIALITY
SPC	PRODUCTS
	SPECIAL ELECTRONIC
SPEI	INSTALLATION
SPSURV	SPACE
	SURVEILLANCE
SR	SHORT RANGE
	(<75KM)
SS	SURFACE-TO-
	SURFACE
	SURFACE
SS/FC	SEARCH/FIRE
	CONTROL
SSN	SURFACE
	SEARCH/NAVIGATION
	SURFACE
SSNFC	SEARCH/NAV/FIRE
	CONTROL
SSRCH	SURFACE SEARCH
SSURV	SURFACE
SSURV	SURVEILLANCE
STM	STEAM
STRL	SEMI-TRAILER
OTT	SURFACE TARGET
STT	TRACKING
Sub	SUBMARINE SONARS
SUB	SUBMARINES
SUB	SUBSISTENCE
SUIT	NBC SUIT
SUP	SUPPORT SHIPS
Sup	SUPPORT SYSTEMS
SUPR	SUPPRESSOR
	COMPUTER
Sw	SOFTWARE
	SEA WATER
SW_REST	RESISTING
SYN	SYNTHETIC
SIN	
TDE	TACTICAL
	DISTRIBUTION
	EQUIPMENT

Acronym	Description
TDW	TRAILER DRAWBAR
וטעעו	WHEELED
TGT2	TARGET ACQUISITION
	2D
TGT3	TARGET ACQUISITION
	3D
TBM	TACTICAL BALLISTIC
TNUZ	MISSILE
TNK	TANK
Tpdo TPDO	TORPEDO TUBES
TPDO	TORPEDO TUBES TRACKING AND
TRK	GUIDANCE
TrlTrc	TRAILER TRACKED
TRN	TRAINER
TRN	TRAINER/UTILITY
TRN	TRAINING
TRN	TRAINING SHIPS
TRN	TRAINING SYSTEM
Trsp	TRANSPORT
TRU>1.5t	TRUCK (> 1500 KG)
TUR	TURBINE
TWD	TOWED
UAV	UNMANNED AERIAL
	VEHICLE
UKN	UNKNOWN
	UNMANNED
UUSV	UNDERSEA VEHICLE
	(UUV)
V&L	VEHICLE & LOGISTICS
VH	VEHICLE
VPC	VERTICAL PALLET
	CARRIER VEHICLE RECOVERY &
VRR	REPAIR
WPN	WEAPONS
	WATER PURIFICATION
WPS	SYSTEM
WS	WEAPON SYSTEM
	WATER THRUST
WTA	AUGMENTATION
WITHD	WEATHER
WTHR	SURVEILLANCE
WTR	WATER
WTR	WATER SUPPLY
V V I I X	EQUIPMENT

Acronym	Description
WtrGly	WATER GLYCOL

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ANNEX D TO ALP-17

ANNEX D REFERENCES

- A Bi-SC SOP: Management of Reportable Item Codes
- B Force Goal 2860
- C Unified OLCM Business Process Model v3.0, dated March 2015
- D NCIA Technical Report TR 2014-SVL009567-01, RIC Specification v6.0
- E NCIA Technical Report TR-2014-SPW009343-01, Linkage of Reportable Item Codes (RIC) and NATO Stock Numbers (NSN)

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