



NCIA/ACQ/2024/0667
21 March 2023

Market Survey - Request for Information

REQUIREMENTS MANAGEMENT TOOL

NCI Agency Reference: MS-CO-423225-REQM

NCI Agency is seeking information from Nations and their Industry to identify available Commercial-Off-The-Shelf (COTS) tool for Requirements Management that meets the NCI Agency business needs.

NCI Agency Point of Contact

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To : Distribution List (Annex A)

Subject : **NCI Agency Market Survey – Request for Information (RFI)**
MS-CO-423245-REQM

1. NCI Agency requests the assistance of the Nations and their Industry to identify within all NATO Nations the availability of Commercial-Off-The-Shelf (COTS) solutions to meet the requirements for a new NCI Agency Requirements Management tool that can meet or exceed the Agency's needs.
2. This Market Survey is being issued to identify potential solutions and possible suppliers. The broadest possible dissemination by Nations of this Market Survey Request to their qualified and interested industrial base is requested.
3. A summary of the requirements is set forth in the Annex B attached hereto. Respondents are requested to reply via the attached Excel spreadsheet (attached to PDF) and the questionnaire at Annex C.



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4. The NCI Agency reference for this Market Survey - Request for Information is **MS-423245-REQM**, and all correspondence and submissions concerning this matter should reference this number.
5. Responses shall in all cases include the name of the firm, telephone number, e-mail address, designated Point of Contact, and a NATO UNCLASSIFIED description of the capability available and its functionalities. This shall include any restrictions (e.g. export controls) for direct procurement of the various capabilities by NCI Agency. Non-binding pricing information is also requested as called out in Annex C.
6. Responses are due back to NCI Agency no later than **17:00 hours Central European Time (CET) on 14th June 2024.**
7. Responses may be issued to NCI Agency directly from Nations or from their Industry to the Point of Contact indicated at Paragraph 8 below. Respondents are invited to carefully review the requirements in Annex D.
8. Please send all responses, via email, referencing **MS-423245-REQM** in the title of the email to: MS-423245-REQM@ncia.nato.int;
9. The Agency may request a demonstration of the described solution. Respondents will be contacted if such a demonstration is desirable to make further arrangements. Respondents are requested to await further instructions after their submissions and are requested not to contact directly any NCI Agency staff other than the POC identified above in Paragraph 9.
10. Any response to this RFI shall be provided on a cost-free and voluntary basis. Not responding will not prejudice or cause the exclusion of companies from any future procurement that may arise from this Market Survey.
11. Responses to this RFI, and any information provided within the context of this survey, including but not limited to pricing, quantities, capabilities, functionalities and requirements will be considered as indicative and informational only and will not be considered as binding on the participant or on NATO within the context of any future acquisition.
12. The NCI Agency is not liable for any expenses incurred by firms in conjunction with their participation in this Market Survey and this Survey shall not be regarded as a commitment of any kind concerning future procurement of the items described therein.
13. Your assistance in this Market Survey request is greatly appreciated.

For the Chief of Acquisition:

*Gracja Jablonska
Contracting Officer*





Enclosures:

Annex A (Distribution List)

Annex B (Request for Information - Summary of Requirements)

Annex C (Request for Information - Questionnaire)

Annex D (Detailed Requirements – Separate excel file +PDF)



ANNEX A

Distribution List for Market Survey – Request for Information
MS-423245-REQM

All NATO Delegations (Attn: Investment Adviser)

All NATO Members Embassies in Brussels (Attn: Commercial Attaché)

Belgian Ministry of Economic Affairs

NCI Agency – All NATEXs

NCI Agency – (reserved)

ANNEX B

SUMMARY OF REQUIREMENTS

Market Survey – Request for Information
MS-423245-REQM**1. Introduction**

1.1. NCI Agency

- The NATO Communications and Information Agency (NCI Agency), established on the 01 July 2012, is NATO's provider of IT and Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR), including Cyber and Missile Defence. The NCI Agency is part of the NATO Communications and Information Organisation (NCIO).
- The NCI Agency delivers advanced C4ISR technology and communications capabilities in support of Alliance decision-makers and missions. This includes the acquisition of technology, experimentation, the promotion of interoperability, systems and architecture design and engineering, as well as testing, technical support and training.

2. Scope

- 2.1. The NCI Agency is seeking to identify available requirements management tools on the market that fulfil the requirements presented below.
- 2.2. This Market Survey – Request for Information is the first step in this process in order to identify possible solutions to provide Requirements Management tool. At this stage, NCI Agency is willing to evaluate all the available services on the market which can provide technological, robust, capable and cost effective solutions to NATO.

3. Eligibility

- 3.1. Eligible suppliers must be from Participating NATO Nations (ALBANIA, BELGIUM, BULGARIA, CANADA, CROATIA, THE CZECH REPUBLIC, DENMARK, ESTONIA, FINLAND, FRANCE, GERMANY, GREECE, HUNGARY, ICELAND, ITALY, LATVIA, LITHUANIA, LUXEMBOURG, MONTENEGRO, THE NETHERLANDS, NORTH MACEDONIA, NORWAY, POLAND, PORTUGAL, ROMANIA, SLOVAKIA, SLOVENIA, SPAIN, SWEDEN, REPUBLIC OF TÜRKIYE, THE UNITED KINGDOM and THE UNITED STATES), unless otherwise specifically authorized by the NCI Agency.

4. Current Solution

- 4.1. The NCI Agency is currently using IBM Engineering Requirements Management DOORS 9.6 to document, link and manage requirements.

5. Requirements/Functionalities

5.1. The NCI Agency's goal is to identify requirements management COTS tools available in the market that support all the key NCI Agency business requirements, which can be summarized in the following blocks:

- 5.1.1 Structured Project, Programme and Portfolio requirements management.
- 5.1.2 Requirements documentation and configuration control.
- 5.1.3 Requirements collaborative development in agile projects.
- 5.1.4 Requirements traceability management and analysis.
- 5.1.5 Report generation and dashboards.
- 5.1.6 Integration and data exchange with engineering and architecture toolchain.
- 5.1.7 Non-Functional Quality requirements.

5.2 Please refer to Annex D. The following attributes have been included in Annex D table:

- 5.2.1 Category: groups requirements into functional and non-functional blocks.
- 5.2.2 Requirement statement: main requirement statement.
- 5.2.3 User Story: same requirement formulated from the tool user/administrator perspective, with the idea of complementing the requirement statement and making it more understandable.
- 5.2.4 Additional notes: supplementary information to the requirement.

6 Life Cycle information

6.1 The system design should minimise total system life cycle costs, including its future Operations and Maintenance (O&M).

ANNEX C
Questionnaire

Instructions

- Please use the attached Excel spreadsheet record the requirements compliance assessment as indicated in question B.1.
- For the rest of the questions (other than B.1), please enter your responses directly below the questions in this questionnaire.
- Please feel free to make assumptions, however, it is important that you state what these assumptions are.
- Please do not enter any general company marketing or sales material as part of your specific responses within this market survey.
- Please answer the relevant questions as comprehensively as possible, providing as much detail as necessary.
- All questions within this document should be answered in conjunction with the summary of requirements in Annex B and the detailed requirements in Annex D.
- Cost details requested in the questions refer to Rough Order of Magnitude (ROM) Procurement & Life Cycle cost, not a binding offer. Please include all assumptions the estimate is based upon.

Questions**A. Company Information**

1. Please provide your:
 - Company name and address
 - Point of Contact name, title and email address

B. COTS Solution

1. Please indicate whether your COTS solution meets the detailed requirements in Annex D, providing additional information for those requirements partially or not covered.
2. Please briefly describe the technical and architectural implementation of your solution.
3. Please indicate any additional feature/capability of your COTS solution that goes beyond the requirements in Annex D.

C. Commercial Aspects

1. Are there any restrictions on the use and deployment of the tool within: NATO, NATO Nations and/or NATO Deployed Operations?
2. Can you provide references to public sector customers, more specifically in the defence sector, currently using your COTS solution?

D. Procurement, Licensing and Cost

1. Please describe the procurement & licensing model. Address topics such as perpetual vs. subscription licenses, floating vs. user licensing, the commitment term and initial ramp-up periods.
2. Assuming a number of 500 nominal users and 30 concurrent users (RMT-51, Annex D), please provide a Rough Order of Magnitude of the licensing cost for your solution for the next 5 years.
3. Please provide a Rough Order of Magnitude of the initial costs for hardware, installation, integration, services, support, etc., and O&M costs for the next 5 years.

ANNEX D

New NCI Agency Requirements Management tool Detailed Requirements

Requirement ID	Category	Statement	User Story	Additional notes
RMT-01	Database management	The new NCI Agency RMT shall be able to create requirement sets and organize them in projects/products and Programmes.	As a User, I want to create requirements sets and assign them to projects/products and programmes, so the requirements database can reflect the project/programme/portfolio (P3) structure of the NCI Agency.	Group requirements under the different applicable entities: enterprise, programmes, projects, products, services.
RMT-02	Database management	The new NCI Agency RMT shall support requirements sets and projects Archive and Restore.	As an Administrator, I want to archive and restore requirements sets, projects and programmes, so I can remove their associated data from the database, store it in a local file, and potentially restore this data back into the database from the local file.	With the idea of storing a project and their requirements (or just a single requirements set) in a local file for archiving purposes, and the ability to restore it into the database if necessary.
RMT-03	Access rights, privileges and user management	The new NCI Agency RMT shall be able to configure access rights on individual Programmes/projects and requirements sets.	As an Administrator, I want to configure access rights for users and groups on programmes, projects and individual requirements sets, so I can restrict the type of access each user and group has into the requirements database data.	

Requirement ID	Category	Statement	User Story	Additional notes
RMT-04	Access rights, privileges and user management	The new NCI Agency RMT shall support the creation of elevated/privileged user accounts.	As an Administrator, I want to be able to manage user account privileges, so I can enable/disable certain advanced tool features as required by the different users.	
RMT-05	Access rights, privileges and user management	The new NCI Agency RMT shall support advanced user management, including expiration of accounts and locking.	As an Administrator, I want to have advanced user management capabilities, so I can manage expiration of accounts and locking.	
RMT-06	Access rights, privileges and user management	The new NCI Agency RMT shall be able to configure access rights on attributes within a requirements set.	As an Administrator, I want to configure access rights for users and groups at individual attributes level within a particular requirements set, so some attributes can be set as read-only, or even hidden, for certain users and groups.	Protect certain attributes within a requirements set or a project, making them read-only (or even not visible) for certain groups of users.
RMT-07	Import/export, reporting and data exchange	The new NCI Agency RMT shall be able to export/import data to/from Microsoft Excel and Word.	As a User, I want to import and export data from and to Microsoft Excel and Word files, so I can populate requirements sets from Excel and Word documents, and also produce requirements reports in Excel and Word formats.	Mapping requirements attributes to Word styles, to create a Word file with different formats for requirements statements, attributes, and other supporting text (descriptions, headings).
RMT-08	Import/export, reporting and data exchange	The new NCI Agency RMT shall be able to create reports from requirements sets based on predefined templates.	As a User, I want to create text based documents (reports) from a predefined template, publishing the chosen data in a requirements dataset.	

Requirement ID	Category	Statement	User Story	Additional notes
RMT-09	Import/export, reporting and data exchange	The new NCI Agency RMT shall support the creation of reports from a requirements set containing requirements up to and including a specified security classification.	As a User, I want to configure the security classification of the requirements to be included in a report from a requirements set, so I can be sure the created report meets the security classification rules.	Currently we define specific views applying filters based on the value of an attribute "Classification", populated for all requirements.
RMT-10	Import/export, reporting and data exchange	The new NCI Agency RMT shall support the ReqIF standard for requirements exchange.	As an Administrator, I want to create requirements packages following the ReqIF open standard, so I can exchange requirements sets with my stakeholders who work in separate requirements databases and network domains.	Latest ReqIF version is 1.2. Our main customer works with IBM DOORS Next Generation, but in a different network domain. It is key for the NCI Agency to be able to easily exchange requirements data with our main customer to create traceability from our project requirements to their requirements, leveraging all possibilities of the ReqIF standard (transferring data and links, attributes, data types and link types definitions, URIs).
RMT-11	Import/export, reporting and data exchange	The new NCI Agency RMT shall be able to create dashboards on requirements database statistics.	As a User, I want to create dashboards on requirements data, so I can monitor different aspects of the requirements management process and requirements lifecycle, such as requirements maturity, priority distribution, implementation degree, traceability and Verification & Validation status.	i.e. configurable graphs based on values of certain attributes (like requirement status or priority).

Requirement ID	Category	Statement	User Story	Additional notes
RMT-12	Technical Solution	The new NCI Agency RMT shall provide a clientless web access option.	As a User, I want to use my web browser to access the requirements database and work with the requirements tool, so I don't need to have any client installed on my laptop.	The tool might provide as well a thick client to access the database, but the web access is a must.
RMT-13	Technical Solution	The new NCI Agency RMT shall operate following a floating licensing schema.	As an Administrator, I want the new NCI Agency RMT to operate on a floating licensing schema, so a number of reduced licenses can be dynamically allocated to those users who need to access the tool.	
RMT-14	Database management	The new NCI Agency RMT shall record and make available system logs and statistics, including error, export and user access and activity logs.	As an administrator, I want to have access to the system logs (errors, export logs, user activity logs, etc.) and statistics about tool usage, so I can troubleshoot when an issue occurs, track the correct execution of the different procedures and monitor the degree of usage of the tool to ensure the licensing schema is appropriate and well dimensioned.	
RMT-15	Requirements documentation	The new NCI Agency RMT shall support attributes, types and link types definitions at database level.	As a User, I want to create attributes, data types and link types definitions that apply to the whole database, so I can reuse them in newly created requirements sets.	Including enumeration types, that allow to select the value of an attribute from a list of allowed options. Database attributes/types definitions shall include URIs (Unique Resource Identifier), so these definitions can be used across multiple databases and tools.

Requirement ID	Category	Statement	User Story	Additional notes
RMT-16	Requirements documentation	The new NCI Agency RMT shall be able to define and apply combined filters (multiple criteria) to requirements sets and create views based on them.	As a User, I want to define views to the requirements set data based on combined filters (multiple criteria and logical operators), so I can focus on different aspects of the requirements documentation targeting specific stakeholder's needs and concerns.	Be able to create views on a complete requirements set by applying multiple logical filters on the data, based on the value of certain attributes and the existence of certain links.
RMT-17	Requirements documentation	The new NCI Agency RMT shall be able to define additional attributes and types only used in a specific project.	As a User, I want to create attributes, data types and link types definitions that apply only to a specific project, so I can adapt the tool to each project needs.	Apart from the attributes and types defined for the whole database (<i>see RMT-15</i>), that may be used by any project, projects shall be able to define their own additional attributes and types.
RMT-18	Requirements documentation	The new NCI Agency RMT shall be able to create requirements templates and reuse them in different projects.	As an Administrator, I want to create requirements sets templates, so projects can reuse them when documenting their requirements.	Typically copying and pasting a template in a project workspace, or instantiating/assigning a "requirements set" in/to a specific project.
RMT-19	Requirements documentation	The new NCI Agency RMT shall include requirements attributes that support the insertion of pictures and tables.	As a User, I want to include figures and tables within a requirements set, so I can add additional/supporting data to complete the requirements documentation.	

Requirement ID	Category	Statement	User Story	Additional notes
RMT-20	Requirements documentation	The new NCI Agency RMT shall be able to attach documents/files to individual requirements and to the requirements set as a whole.	As a User, I want to upload and attach documents/files to individual requirements and to the requirements set as a whole, so I can add additional/supporting documentation to complete the requirements set.	Microsoft Office, PDF, typical images formats (png, jpg, jpeg,...)
RMT-24	Requirements documentation	The new NCI Agency RMT shall support basic text formatting.	As a User, I want to create basic text attributes, so I can apply different formats (bold, italics, sub/superscripts) and arrange text in bullet lists and/or using indentation.	Bullet lists, indenting, basic formatting (bold, italics, subscripts/superscripts, etc.).
RMT-25	Requirements documentation	The new NCI Agency RMT shall include a find/replace tool to use in a requirements set.	As a User, I want to have a text find/replace feature, so I can find specific words and replace them for a different one in a requirements set.	Include advanced options such as "match case"
RMT-26	Requirements documentation	The new NCI Agency RMT shall support spelling and grammar checks.	As a User, I want to run spelling and grammar checks on text fields, so I can correct mistakes and improve quality of the requirements documentation.	At a minimum in English, preferably in both English and French.
RMT-27	Requirements documentation	The new NCI Agency RMT shall support rich text edition.	As a User, I want to create rich text content, so I can highlight text in multiple colours and use multiple fonts and sizes within the same requirements set.	Text colours, highlighting, advanced formatting...

Requirement ID	Category	Statement	User Story	Additional notes
RMT-21	Requirements documentation	The new NCI Agency RMT shall be able to create documents with hierarchy, including also headings and descriptive text.	As a User, I want to create requirements documents that arrange their elements in a hierarchy, organizing requirements and other elements, such as descriptive text or figures, within sections and subsections, so I can structure requirements documentation and prepare it for report generation into Word/PDF.	Organizing the requirements (and other elements, such as descriptive text, figures, tables) in a structure of sections and sub-sections with their headings and heading numbers.
RMT-22	Requirements documentation	The new NCI Agency RMT shall be able to define attributes only available to specific requirement/object types.	As a User, I want to define attributes that apply only to specific types of elements within the requirements set, so I can focus on populating the content of those attributes that are meaningful to the requirements set.	For example, within a requirements set that contains also headings and descriptions, it only makes sense to assign a priority to objects that are requirements, not to descriptions or headings.
RMT-23	Requirements documentation	The new NCI Agency RMT shall include requirements attributes that support attachments in common office formats which are visible when viewing the requirements set.	As a User, I want to insert attachments in common office formats within a requirements set, so I can add additional/supporting configurable data to complete the requirements documentation.	In DOORS classic OLE objects are supported.
RMT-28	Collaborative development	The new NCI Agency RMT shall be able to record discussions around requirements.	As a User, I want to create and record discussions around requirements, so the team can collaboratively define requirements sets and requirements reviews can be done directly on the requirements tool.	Discussions to support requirements review natively in the tool: close comments, respond to comments (discussion thread).

Requirement ID	Category	Statement	User Story	Additional notes
RMT-29	Collaborative development	The new NCI Agency RMT shall allow collaborative development of requirements, including concurrent edition of requirements sets.	As a User, I want to collaboratively create requirement sets with my team, so I can concurrently work on the requirements drafting process with my peers.	DOORS locks a whole module (or parts of it) when a user is editing it. We would need this behaviour to be configurable: be able to lock a requirements set for exclusive edition, but also be able to activate concurrent edition by multiple users.
RMT-30	Configuration control	The new NCI Agency RMT shall track history of changes in individual requirements.	As a User, I want to track and review the history of changes each requirement goes through, so I can revisit how a requirement is evolving, who applied the changes, and when these were applied.	Showing the date of each change and the author who made the change.
RMT-31	Configuration control	The new NCI Agency RMT shall be able to define baselines and compare changes between different baselines.	As a User, I want to define requirement sets baselines and be able to compare baselines, so I can review how the requirements set has evolved through its lifecycle.	Baseline as a snapshot of a requirements set at a certain moment in time.
RMT-32	Configuration control	The new NCI Agency RMT shall be able to define baseline sets, grouping multiple requirements sets in same baseline.	As a User, I want to group various baselines from different requirements sets into a single project level baseline set, so I can capture the current project requirements baseline at any time.	If a project has multiple requirements sets, we should be able to group some/all of them in a single baseline set, apart from each of them individually having their own version/baseline.

Requirement ID	Category	Statement	User Story	Additional notes
RMT-33	Configuration control	The new NCI Agency RMT shall support merging of two separate baselines, detecting the possible conflicts and assisting the user in reconciling them into a new merged baseline.	As a User, I want to merge two separate baselines with the assistance of the tool, so I can see where the conflicts are to decide which version prevails in the new consolidated baseline.	Use case - One baseline being the continuous ISS baselines and the other one being a specific project that started by branching an ISS baseline that shall be reconciled in the most recent ISS baseline when the project is completed. The baseline comparison shall include as well user-defined attributes.
RMT-34	Traceability	The new NCI Agency RMT shall be able to create links to other objects in the database and to external URLs, allowing to define and use different link types.	As a User, I want to create links between elements in requirements sets within the requirements database, and also to external URLs, defining as well different link types, so I can create and maintain traceability between requirements and indicate the nature of the traceability relationships.	Using link type definitions at database level (influence, realization, association, etc.).
RMT-35	Traceability	The new NCI Agency RMT shall support notification of configurable mandatory links that have not been established for requirements in a requirements set.	As a User, I want to be aware of the mandatory links that are missing in a requirements set, so I can make sure that traceability has been properly created and is complete.	Be able to define mandatory links that need to be created (a requirement at a certain level must be linked to at least one requirements at another level), and if no links have been created, flag it somehow to the user. At least when performing certain actions: for instance, when creating a requirements set baseline. As an example: all component requirements shall be linked to at least one system requirement.

Requirement ID	Category	Statement	User Story	Additional notes
RMT-36	Traceability	The new NCI Agency RMT shall provide links and traceability matrices visualization.	As a User, I want to visualize requirements traceability matrices and traceability relationship trees, so I can perform traceability analysis tasks.	Being able to navigate through the links, visualize the links tree and graphical representations of traceability matrices.
RMT-37	Traceability	The new NCI Agency RMT shall support change impact analysis.	As a User, I want analyse impact of proposed and implemented changes in requirements, so I can know all the related requirements at different levels that are potentially impacted by a change.	At a minimum flagging when a linked object has changed on the other edge of the link, so the user can review that link and the involved source and target, to decide whether the flag is to be cleared or the introduced change requires an action.
RMT-38	Traceability	The new NCI Agency RMT shall be able to show attributes of linked objects in a requirements set view.	As a User, I want to visualize for each requirement, a configurable list of attributes from its linked requirements, so I can add context and additional information about the source or derived artefacts of each individual requirement in a set.	As a pop-up window when hovering in the linked items or selecting the linked item, and also as a field populated with the value of the attribute in the object on the other edge (e.g. List of Requirement ID's of all parent requirements to a System Requirement).
RMT-39	Traceability	The new NCI Agency RMT shall be able to restrict the links that can be created based on a defined strategy.	As an Administrator, I want to restrict the types of links that can be created between the different requirements sets, so I can enforce a coherent traceability strategy across the whole database.	Defining and enforcing a traceability strategy, only certain links are allowed between the requirements sets in the landscape (e.g. Solution Requirements -> Capability Requirements, Capability Requirements -> Operational Requirements as "realize" type of link, but NOT directly Solution Requirements -> Operational Requirements, for example).

Requirement ID	Category	Statement	User Story	Additional notes
RMT-40	General features	The new NCI Agency RMT shall include an advanced search capability able to look into multiple/all projects content.	As a User, I want to search for keywords across the programmes and projects I select, so I can easily locate a particular reference in multiple requirements sets at the same time.	Typically looking for a keyword in all projects.
RMT-41	General features	The new NCI Agency RMT shall provide externally accessible URLs for projects, requirements sets and individual requirements.	As a User, I want all objects in the database (i.e. individual requirements, requirements sets, projects, programmes) to have an associated unique address (URL), so I can reference objects externally and access them following the URL links.	This URL shall remain unchanged even when element is moved to a different location within the database (e.g. a project moved from a sub-portfolio to a programme).
RMT-42	Advanced features	The new NCI Agency RMT shall be able to define workflows to support the requirements drafting, implementation and V&V processes.	As a User, I want to define workflows associated with requirements attributes, such as drafting, implementation or V&V statuses, so I they can support the different requirements management processes during requirements lifecycle.	Define the different values a status attribute might take depending on a certain workflow (e.g. verification status: not started > approved OR failed).
RMT-43	Advanced features	The new NCI Agency RMT shall support the use of AI to run requirements quality assessments.	As a User, I want to interface with AI/BI tools, so I can run requirements automated natural language quality assessments.	Recognizing natural language words and patterns that might bring quality concerns (open-ended statements, ambiguous adjectives, etc.). Mechanism of automated learning, so patterns identified as problematic might be looked for again in future assessments.

Requirement ID	Category	Statement	User Story	Additional notes
RMT-44	Advanced features	The new NCI Agency RMT shall include a scripting language to automate actions and create calculated attributes in requirements sets, projects and Programmes.	As a User, I want to create calculated attributes, so their values can be populated from formulas and logic applied on other attributes and data.	Run one-time execution of a script/program that operates with the data in the database, and define requirements attributes which value is calculated (instead of manually input) using scripts.
RMT-45	Advanced features	The new NCI Agency RMT shall be able to create a local off-line copy of a requirements set that can be read-only accessible with no connection to the database.	As a User, I want to be able to access (read-only) to an off-line local copy of a requirements set, so I can consult that requirements set when I am offline and have no connectivity to the requirements database.	Similar to how Outlook operates, you can access it and read already synchronized emails even if you are not online and have no access to the Exchange server. In a web based tool, it would be more being able to easily download a page locally for later offline access. This requirement could actually be (at least partially) fulfilled by <i>RMT-07</i> (reporting).
RMT-46	NFR-Security	The new NCI Agency RMT shall be able to run in the NR REACH domain and support up to NR data classification.	---	
RMT-47	NFR-Security	The new NCI Agency RMT shall be supported by the vendor, providing regular security updates to address vulnerabilities.	---	

Requirement ID	Category	Statement	User Story	Additional notes
RMT-48	NFR-Security	Functionality of the new NCI Agency RMT shall be remain the same after all the applicable security mechanisms and restrictions for the NCI Agency network and authorized browsers are in place.	---	e.g. document upload not blocked by the diode
RMT-49	NFR-Performance	The new NCI Agency RMT shall support working with large requirements sets (+20.000 requirements per view, each of them containing multiple links) not affecting the overall user experience due to performance reduction.	---	In the most extreme scenario, let's assume 25.000 requirements and 50.000 (incoming and outgoing) links altogether for a single view
RMT-50	NFR-Performance	Performance of the new NCI Agency RMT shall be measured after activating all the applicable security mechanisms and restrictions for the NCI Agency network and authorized browsers.	---	Security restrictions, browsers, security measures affect performance, especially in large requirements sets (+20.000 requirements).
RMT-51	NFR-Capacity	The new NCI Agency RMT shall have enough capacity to provide full non-degraded functionality to at least 500 nominal users and 30 concurrent users.	---	

Requirement ID	Category	Statement	User Story	Additional notes
RMT-52	NFR-Compatibility	The new NCI Agency RMT shall be compatible with the NCI Agency NR REACH network and applications architecture.	---	
RMT-53	NFR-Compatibility	The new NCI Agency RMT shall be compatible with the NATO Secret network and applications architecture.	---	To at least have the potential of creating an instance in NS
RMT-54	NFR-Compatibility	The new NCI Agency RMT shall be able to run on the NATO Software Factory platform (Azure Public Cloud), and integrate with the existing NATO Software factory backlog management tools: Jira and Azure Devops.	---	Preferably using containers. The NSF has 2 different tool chains, with 2 different backlog management tools: JIRA and Azure DevOps.
RMT-55	NFR-Interoperability	The new NCI Agency RMT shall support Single Sign On capability through integration with Active Directory.	---	
RMT-56	NFR-Interoperability	The new NCI Agency RMT shall be able to exchange/synchronize data with the current DOORS database to support the data migration process.	---	It might be the case that both requirements repositories will need to run in parallel for some time, so support to data exchange and migration will be critical.

Requirement ID	Category	Statement	User Story	Additional notes
RMT-57	NFR-Interoperability	The new NCI Agency RMT shall be able to integrate and bidirectionally synchronize requirements data with other engineering, architecture and P3M NCI Agency tools.	---	Including: * Jira/Zephyr for product backlog and test management * Architecture tools following the Archimate standard (currently ARIS and Archi) * ServiceNow P3M tool

Table 1 – New NCI Agency Requirements Management tool Functional Requirements