

Notification of Intent to Invite Bids

IT MODERNISATION (ITM) RECOVERY INCREMENT 1 SYSTEMS INTEGRATION

RFQ-CO-115714-INTEG

Estimated Value: EUR 10,717,205.00

The scope of this upcoming opportunity is for the provision of IT Modernisation (ITM) Recovery Increment 1 for Systems Integration within NATO IT systems and networks.

The Systems Integration shall cover the integration and testing of: the Operational Network (ON) NATO Infrastructure-as-a-Service (IaaS) Private Cloud, Enterprise Core Services (ECS) and Client Provisioning Services (CPS) including Virtual Desktop Infrastructure (VDI); Cyber Security Integration; Services Management and Control (SMC) integration and Systems Integration. The Systems Integration main objective will be to operate across various capabilities and will be required to address the changes that will transpire during the life of the project.

The NCI Agency anticipates issuing the formal Request for Quotation (RFQ) using Basic Ordering Agreement (BOA) Plus Procedures in the third quarter **Q3 2022**, with an anticipated bid closing date in the third quarter **Q3 2022**, and an expected contract award by the fourth quarter **Q4 2022**.

NCI Agency Point of Contact

Ms. Eva Benson, Contracting Officer E-mail: RFQCO115714INTEG@ncia.nato.int



NCIA/ACQ/2022/ 06991 07 July 2022

To Distribution List

Subject Notification of Intent to Invite Bids

IT Modernisation (ITM) Recovery Increment 1,

SYSTEMS INTEGRATION

RFQ-CO-115714-INTEG

Reference(s)

- A. AC/4-D/2261 (1996 Edition)
- B. AC/4-D(2008)0002-REV1 dated 27 April 2009
- C. AC/4-D(2019)0004(INV), dated 4 July 2019
- D. AC/4(PP)D/27263-REV2-ADD21-REV1 NR dated 5 April 2022
- E. BC-D(2022)0038-REV1 NR dated 5 April 2022
- F. AC/4(PP)D/27263-REV2-ADD21-REV1-COR1 NR dated 12 April 2022
- G. BC-D(2022)0038-REV1-COR1 NR12 April 2022
- H. AC/4-DS(2022)0010 dated 1 June 2022
- 1. The NCI Agency, as the Host Nation, hereby gives notice of its intent to issue a Request for Quotation (RFQ) for the provision of Systems Integration under the ITM Recovery Increment 1. There is a total of fourteen (14) Work Packages (WPs) under ITM Recovery Increment 1. The requirement for this notification is WP 7, Systems Integration; which, involves a total of five (5) Spirals. The first two Spirals (0 and 1) will be part of the base contract and will be fundamental in order for the remaining Spirals, which will be priced and evaluated options to the contract, to be exercised upon successful completion of Spirals 0 and 1.
- 2. Attached to this letter at Annex A is a summary of the requirements and at Annex A1 the site locations. These requirements are being refined and will be included in further detail as part of the Request for Quotation.
- 3. The reference for the Request for Quotation will be **RFQ-CO-115714-INTEG**, and all correspondence concerning this Notification of Intent and the RFQ should reference this number.
- **4.** The estimated investment cost for the services and deliverables included within the basic scope of the intended contract is EUR 10,717,205.00 for Spirals 0 and 1. Funding for this project is provided by the Investment Committee "at 30".
- **5.** The not-to-exceed investment cost for bids submitted shall be EUR 13,396,506.25 for Spirals 0 and 1 (125% of the estimated investment cost), or the equivalent expressed in any other allowed currency calculated in accordance with the currency conversion prescriptions that will be expressed in the RFQ.



- 6. The NCI Agency is authorised to use the Basic Ordering Agreement (BOA) Plus Procedures utilizing the Source Selection based on NSIP Best Value Evaluation Procedures. For clear understanding, the competition will run utilizing BOA Plus Procedures (e.g. timeframes, extension requests); however, the technical evaluation criteria will utilize the Best Value Evaluation Procedures. The successful bid pursuant to this RFQ will be that bid which is deemed to offer the best value for money in accordance with predefined bid evaluation criteria which will be detailed in the RFQ as prescribed by the Best Value Evaluation Procedures. The authorized top level criteria will be: Technical (80%) and Price (20%).
- 7. The NCI Agency is authorised to execute a pre-qualifying step to the Source Selection by establishing a competitive range restricting access to the next phases of the Source Selection (Technical and Price Evaluations) to those companies that can demonstrate successful past performance with both the technology to be delivered (i.e. Cloud Computing) as well as the role of integrator that bidders are required to perform. Evidence of qualifying successful past performance would be constituted by the provision of certification by the government or commercial entities for which such performance was rendered (i.e. contracting party), among other elements. This requirement will be detailed at the appropriate level in the RFQ.
- **8.** It is planned to award a single Firm-Fixed Price (FFP), Indefinite Delivery Indefinite Quantity (IDIQ) contract for the entire scope of work. No partial bidding will be accepted. The Period of Performance will be from Q4 2022 through Q3 2025.
- **9.** Attached to this letter, at Annex B, is a list of potential bidders that may be able to provide the services and equipment required for this project. This list was compiled from the companies that have an active BOA with NCI Agency.
- 10. The BOA Plus procedure allows National Responsible Authorities to nominate eligible bidders, in addition to the companies identified at Annex B. Any such nomination for companies that do not have an active BOA should be received from the National Responsible Authorities via their Delegation/ Mission to NATO, who will provide the requisite Declaration of Eligibility (DoE). Upon receipt of the DoE, the NCI Agency will add the nominated company to the list of potential bidders.
- 11. National Responsible Authorities are therefore kindly requested to provide Declarations of Eligibility (DoE) to the NCI Agency, not later than 1 August 2022, 17:30 Central Europe Time (CET), of qualified and certified companies, which may be interested in receiving a Request for Quotation for this project. The Declaration of Eligibility (DoE) should include the following information for each of the nominated firms:
 - Company Name and Address
 - Point of Contact, Telephone number and E-mail address.

This information is critical to enable prompt and accurate communication with prospective bidders.

12. Declarations of Eligibility (DoE) should be sent electronically to the following address:

NATO Communications and Information Agency Attention: Ms. Eva Benson, Senior Contracting Officer



E-mail: RFQCO115714INTEG@ncia.nato.int

- **13.** Please note that requests for participation in this competition received directly from individual companies cannot be considered, unless they hold a valid Basic Ordering Agreement (BOA) with the NCI Agency.
- **14.** The NCI Agency plans to issue the formal RFQ in the third quarter (Q3) 2022, with an anticipated bid closing date in the third quarter (Q3) 2022, and an expected contract award by the fourth quarter (Q4) 2022.
- **15.** The National Authorities are advised that the RFQ package will be NATO UNCLASSIFIED; however, the bidding and the contractual documents are expected to contain references to other NATO documents classified as NATO RESTRICTED.
- 16. The execution of the proposed contract may require unescorted access and work of Contractor personnel at NATO Class I and II security areas. Therefore, in accordance with C-M(2002)49-REV1 Security Within the North Atlantic Treaty Organization (NATO), dated 20 November 2020 and any further revisions, personnel of the successful bidder will be required to hold individual security clearances of "NATO SECRET". Only companies maintaining such appropriate personnel clearances will be able to perform the resulting contract.
- **17.** The NCI Agency Point of Contact for all information concerning this NOI is Ms. Eva Benson, Contracting Officer at the primary e-mail address:

RFQCO115714INTEG@ncia.nato.int

In case of technical issues with the RFQ e-mail address please inform the undersigned at eva.benson@ncia.nato.int

19. Your assistance in this procurement is greatly appreciated.

FOR THE CHIEF OF ACQUISITION:

Eva Benson

Eva Benson Senior Contracting Officer

Attachments:

Annex A – Summary of the Requirements

Annex A1- Site Locations

Annex B - Initial List of Bidders



Distribution List for NOI: RFQ-CO-115714-INTEG

• NATO Delegations (Attn: Infrastructure Adviser)

Albania

Belgium

Bulgaria

Canada

Croatia

Czech Republic

Denmark

Estonia

France

Germany

Greece

Hungary

Iceland

Italy

Latvia

Lithuania

Luxembourg

Montenegro

The Netherlands

North Macedonia

Norway

Poland

Portugal

Romania

Republic of Türkiye

Slovakia

Slovenia

Spain

United Kingdom

United States

• NATO HQ

NATO Office of Resources, Management and Implementation Branch –

Attn: Deputy Branch Chief

Director, NATO HQ C3 Staff, Attn: Executive Coordinator

SACTREPEUR, Attn: Infrastructure Assistant

SHAPE, Attn: J3 & J2

• Strategic Commands

HQ SACT - Attn: R&D Contracting Office

ACO Liaison Office

• All NATEXs

NCI Agency – Internal



Annex A

Summary of the Requirements

RFQ-CO-115714-INTEG

1. Background

- 1.1. ITM project ambition is to transform the NATO IT infrastructure and service operations:
 - 1.1.1. from the 'as-is' highly decentralized environment, with each location possessing their own networks, server rooms, Service Management and Control (SMC) capabilities, Service Desk and capability experts servicing solely the local user community;
 - 1.1.2. to the 'to-be' target of a centrally managed, centralized IT infrastructure (Data Centres), providing services to standardized Nodes or consumer sites in two domains (Protected Business Network (PBN) and Operational Network [ON]), providing Infrastructure as a Service (IaaS), utilizing centralized provisioning, a centralized Enterprise Service Operations Centre (ESOC) (with a secondary site for resilience) to manage the infrastructure, and centralized or localized Service Operations.
- 1.2. The full NATO Enterprise scope of ITM will be achieved through a number of increments. Increment 1 (Inc1) will gradually implement NATO ON (Operational Network, NS classification) infrastructure and necessary services to all NATO Command Structure (NCS) sites in scope.
- 1.3. ITM Recovery Increment 1 focusses on delivering early benefits to the NCS through a 'Spiral' based implementation, incrementally reducing the need for further ITM Mitigation obsolescence management for the current NS infrastructures. Each spiral delivers defined portions of the capability and subsets of outcomes to the NCS sites in the scope of the project.
- 1.4. The NATO ON represents a major transformation of current NCS infrastructures into a fully modernized set of Information and Communications Technology (ICT) services with cyber security incorporated "by design".
- 1.5. ITM Recovery Inc1 is established on the basis of reusing the architecture and design previously established by NCI Agency. The approved high-level architecture and design delivered via the previous ITM project have been refreshed by the Agency to respond to the latest security requirements as per latest NATO Security Directive.
- 1.6. The technical approach supports centralized management of services in order to enable the proactive monitoring of ICT services, and the ability to assess impact from network, security, applications and data incidents or changes.



2. WP07 Role and Responsibilities

- 2.1. The WP07 "Systems Integration and Core Capabilities" implements the fundamental building blocks of the cloud infrastructure: Infrastructure as a Service (IaaS) Private Cloud services, Enterprise Core Services, Client Provisioning Services and a number of Cyber Security and Service Management and Control Integration elements and integrates the outputs and capabilities which are delivered by other Work Packages.
- 2.2. The WP07 ensures the essential integration of all systems, technologies and applications delivered by or to the other 13 x ITM Recovery WPs and their integration within NATO IT systems and networks.
- 2.3. The WP07 has the role of System Integrator and is responsible for planning, coordinating, scheduling, implementing, integrating and testing defined core capabilities and systems integration.
- 2.4. The scope of WP07 is performed by a collaboration between the NCI Agency and the Contractor.
- 2.5. The Contractor will have the role of ensuring the delivery of defined core capabilities and their integration **with** other Work Packages delivered capabilities. Whereas the NCI Agency will be accountable for the integration of services **within** NATO.
- 2.6. ITM Recovery Inc1 is realized through five spirals so that the capabilities are brought gradually:
 - 2.6.1. Spiral-0: project setup, establishment of contracts;
 - 2.6.2. Spiral-1: delivery of core capabilities across three major sites: Mons and Lago Patria (two Data Centres) and Brunssum as Enhanced Node;

NOTE: Spiral 0 and 1 will be part of the base contract with the remaining Spirals listed as priced and evaluated options to be exercised if activated by the NCI Agency upon successful completion of Spirals 0 and 1 by the Contractor.

- 2.6.3. Spiral-2 and Spiral-3: rollout of the Spiral-1 defined capabilities to other NATO Command Structure locations;
- 2.6.4. Spiral-4: expansion of the capacity and migration of backend applications;
- 2.6.5. Spiral-5: rollout of solution to migrate the existing Education and Training Environment.
- 2.7. The Period of Performance for WP 07 (Spirals 0 through 5) is planned from contract award through Q3 2025.
- 2.8. The Agency will seek authorization from the Investment Committee for Spirals 2 through 5 to be exercised via options to the contract based on intermediary checkpoints concerning the performance of the Contactor.

3. Contract Scope:



- 3.1. The project's scope is limited to ITM Recovery Inc1, the NATO Operational Network supporting NATO ACO and ACT sites.
- 3.2. The scope of the Contract (throughout the 5 Spirals) will include the implementation and successful integration of a centrally managed Infrastructure as a Service (IaaS), Enterprise Core Services (ECS) and Client Provisioning Services (CPS) operating at NATO Secret (disconnected from the Internet) as per the following:
 - 3.2.1. A secure multi-tenant private cloud laaS solution (2 datacentres/regions, 12 large local laaS footprint and 7 small local laaS);
 - 3.2.2. Including the establishment and implementation of a new management identity domain, new management services and disaster recovery capabilities;
 - 3.2.3. Supporting initially 6 security zones (tenants with separation extended over the WAN);
 - 3.2.4. Extension and adaptation of the existing Enterprise Core Services (including AD, DNS, NTP, Email, Portal services);
 - 3.2.5. Extension and adaptation of Client Provisioning Services including the implementation of centrally managed VDI deployments (9 in total) and mobile user profile capabilities;
 - 3.2.6. Integration and Interfacing with existing and ITM Recovery to be established NATO system and services;
 - 3.2.7. Implementation SMC and Cyber Security services and integrate into the Enterprise level SMC and Cyber Security services.
 - 3.2.8. It is also the intent of the purchaser to require from the Contractor to leverage an agile implementation approach allowing for the early establishment of services and a more flexible implementation. The Agile approach should allow for prioritization during implementation and potential incremental releases to production over the project duration.
- 3.3. The Contractor will leverage existing Architecture and Service Design documents and is responsible for:
 - 3.3.1. Updating the design (provided by the NCI Agency as Service Delivery Packages (SDPs) only where and when needed to allow for the successful implementation of the services;
 - 3.3.2. Develop and provide the Automation and Infrastructure as a Code design;
 - 3.3.3. Design and Develop and provide an orchestration service that will allow to deploy and manage the ITM services; Leveraging automation to the maximum



extent to allow for rapid deployment of the large and small local laaS and the rapid implementation of additional laaS resources;

- 3.3.4. Develop and provide the detailed implementation documentation;
- 3.3.5. Implement, test and document all services in scope by leveraging Automation and Infrastructure as a Code;
- 3.3.6. Develop and provide Standard Operating Procedure (SOP) documentation for all provided services.
- 3.4. Currently defined design envisions the reuse of the Architecture and service design document. The following major technologies will be leveraged:
 - 3.4.1.VMware VSAN, VMware vRealize Suite, VMware Horizon, VMware VCF;
 - 3.4.2. Cisco switches and Cisco ACI;
 - 3.4.3. Microsoft services (AD, ADFS, MIM, SharePoint, OneDrive etc.);
 - 3.4.4.Palo Alto/Panorama;
 - 3.4.5.Veeam;
 - 3.4.6.HP servers (VSAN Ready);
 - 3.4.7. Additional Backup Storage and Object Storage appliances remain to be defined.
- 3.5. The Contractor will leverage Purchaser provided hardware and software:
 - 3.5.1.The laaS Hardware will be provided racked and cabled, according to the physical topology defined in the Agency provided design, and made available by the Purchaser to the Contractor (Additional but limited security hardware will be defined in the SoW and procured/installed by the Contractor);
 - 3.5.2.It is the intent of the purchaser to procure capacity over time (and expected to be deployed leveraging automation), to improve efficiencies and reduce obsolescence issues, which will require coordination as part of the agile implementation;
 - 3.5.3.Licenses will be provided by the purchaser for VMware, Cisco, Microsoft, Palo Alto, Veeam, and other products part of the design which will be detailed in the SoW.
- 3.6. The Contractor will be responsible to provide the required licenses to establish orchestration and automation and Infrastructure as a Code services (e.g. Ansible, Git repository, Terraform etc.) and the O&M for the automation and orchestration tooling during the project.



- 3.7. The Contractor will be required to implement interfaces with NATO systems and services following NCI Agency guidance and including:
 - 3.7.1.NATO SMC Enterprise services (including CMDB, SLA monitoring, capacity and incident management);
 - 3.7.2.NATO Cyber Security services (PKI, OVA, OCF, NIDS, NIPS, logging, SIEM);
 - 3.7.3.NATO Existing Core Enterprise Services (Identity repositories, ADFS , DNS, email):
 - 3.7.4.NATO Wide Area Network (NCI) (including separate Virtual routing functions per tenants):
 - 3.7.5.NATO Diode services;
 - 3.7.6.NATO PAM capability.
- 3.8. The Contractor will also be responsible for the execution of Release and Configuration Management for the entire ITM Recovery Inc1, but excluding Configuration management for ITM Recovery Inc1 project artefacts other than the project artefacts in scope of WP07.

4. Elements that are out of the Contract Scope

- 4.1. SMC Enterprise Integration is part of another Work Package from ITM Recovery Inc1. However, the WP07 Contractor will be required to support and implement the configuration required of the Domain SMC components to integrate with the Enterprise SMC services.
- 4.2. Application Migration Support and cross-domain application analysis is not part of this integration package, the Application Migration work will be executed via another Work Package.
- 4.3. Provision and deployment of Customer End User equipment (workstations, thin clients, etc.).



ANNEX A1

ITM Recovery Inc1 Site Locations

ITM ON Infrastructure topology is based on the concept of central DCs that will host all capabilities and due to various constraints (bandwidth, latency, business requirements) other remote locations that could host a subset of capabilities. The remote locations are also of different scale, Enhanced Nodes (EN) that allow hosting of some application services, Standard Nodes (SN) that support Client Provisioning Services, and Remote Nodes (RN) that provide the basic capability to connect to the NATO Enterprise but has no local compute or storage abilities.

Spiral	Location	Node Type
Spiral 1	Mons	DC
Spiral 1	Brunssum - NCIA only	EN
Spiral 1	Naples	DC
Spiral 2	Brunssum	EN
Spiral 2	Norfolk	EN
Spiral 2	Northwood	EN
Spiral 2	Izmir	EN
Spiral 2	Ramstein	EN
Spiral 2	Sigonella	EN
Spiral 2	Ulm	EN
Spiral 2	Geilenkirchen	EN
Spiral 2	Stavanger	EN
Spiral 2	Bydgoszcz	EN
Spiral 3	Norfolk	SN
Spiral 3	Torrejon	SN
Spiral 3	Uedem	SN
Spiral 3	Poggio Renatico	SN
Spiral 3	Wesel	SN
Spiral 3	Blandford	RN
Spiral 3	Haderslev	RN
Spiral 3	Pleso	RN
Spiral 3	Grazzanise	SN



Spiral 3	Bucharest	RN
Spiral 3	Gorna Malina	RN
Spiral 3	Bydgoszcz	SN
Spiral 3	Lipnik and Becvou	RN
Spiral 3	Ruzomberok	RN
Spiral 3	Vilnius	RN
Spiral 3	Szekesfehervar	RN
Spiral 3	Aktion	RN
Spiral 3	Konya	RN
Spiral 3	Trapani	RN
Spiral 3	Oerland	RN
Spiral 3	Brussels	RN
Spiral 3	Lisbon	SN
Spiral 5	Stavanger (ETEE02)	ETEE
Spiral 5	Bydgoszcz (ETEE01)	ETEE



Country

Vendor

BELGIUM

ATOS

Akacio - Louis & Associates s.a.r.l

Brevco Services S.C.S.

Computer Sciences Corporation

Dimension Data Belgium Getronics Belgium SA/NV

Hewlett Packard Enterprise Belgium BV Quality Business Engineering Europe

RHEA System S.A. RealDolmen NV

SOPRA STERIA BENELUX

SoftwareOne BE BV

Thales S.A.

UNIFY COMMUNICATIONS
Van Roey Automation NV

BULGARIA

Electron Progress EAD

KRISTANEA LTD.

Lirex BG Ltd

CANADA

General Dynamics Mission Systems-Canada

Norsat International Inc. Resul Control Systems Ltd.

CROATIA

CROZ d.o.o. za informaticku djelatnost

IN2 Information Engineering Ltd.

Span PLC

CZECH REPUBLIC

Skill s.r.o.

TietoEnator Czech s.r.o.

DENM ARK

SAAB Danmark A/S

FRANCE

Airbus Defence and Space SAS Altran technologies ASD Paris

Bull SAS

CS Systèmes d'Informations IDEMIA Identity & Security France

MARLINK SAS

Société Réseau Informaique et Gestion

Sopra Steria Group

GERMANY

Bechtle GmbH & Co.KG CANCOM Public GmbH

CGI (Germany) Gmbh &Co.KG
CONET Solutions GmbH

CSC Deutschland Solutions GmbH



Country

Vendor

GERM ANY Cognizant Consulting and Services GmbH

FREQUENTIS Deutschland GmbH

GTSI Corp. Hays AG

INTEC Industrie-Technik GmbH & Co.KG

Quin GmbH

Telespazio Germany GmbH

GREECE European Dynamics SA

HUNGARY S&T Consulting Hungary Ltd.

Synergon Information Systems plc- Synergon Integrator Kft

ITALY 3F & EDIN Spa

Engineering Ingegneria Informatica S.p.A

Fondazione FORMIT

NA.EL. SRL NETGROUP SIMAV SPA

SMS Engineering srl

TELSY S.p.A.

ePM-Engineering to Project Management sr

LATVIA DATI Group, LLC

DPA Ltd

LITHUANIA Blue Bridge

Synergy Consulting

NETHERLANDS NCIM-Groep

UNI Business Centre BV

NORWAY 3D perception AS

Atea Norge AS

POLAND Asseco Poland S.A

Atende S.A.(prior ATM S.A.)

Decsoft S.A. EXENCE S.A.

Instytut Techniczny Wojsk Lotniczych

Newind sp. z o.o.
PROKOM Software S.A.
Softblue Michal Kierul

Sygnity S.A.

Unizeto Technologies SA Zbar Phu Mariusz Popenda



Country

Vendor

PORTUGAL GMV- Skysoft S.A.

ROMANIA ATOS Convergence Creators SRL

REXENERG POWER SRL

Romsys SRL

Teamnet International S.A.

UTI Grup S.A.

SLOVAKIA Aliter Technologies a.s

InterWay, s.r.o.

SLOVENIA Unistar LC d.o.o.

SPAIN Alma Technologies s.a.

GMV Aerospace and Defence S.A.U.

Indra Sistemas S.A. KRC ESPAÑOLA, S.A.

NTT DATA Tecnobit S.L

TURKEY HAVELSAN Hava Elektronik San. Ve Tic A.S.

UNITED KINGDOM Audax

Centerprise International Ltd

IOSTRAP, LTD Info-Assure LTD. Leonardo UK Ltd

Razor Thorn Security LTD

Softcat plc

Software Box Ltd. Sopra Steria Limited

Spektrum Management Group Ltd

Storm Technologies Ltd

UNITED STATES AATD, LLC

AUTOMATION INNOVATIONS LLC

Accelera Solutions, Inc.

Affigent, LLC

BAE Systems Information Solutions Inc.

EMW, Inc.

Forward Slope, Inc.

Honeywell Technology Solutions Inc.

Intelligent Waves LLC K3 Enterprises, Inc.

L-3 National Security Solutions, Inc.

LEIDOS Inc MKS2 LLC



Country

Vendor

UNITED STATES

ManTech International Corporation Mutual Telecom Services Inc. Onshore Technology Consultants Parsons Government Services Inc.

PlanIT Group LLC

Raytheon CompanyNetwork Centric Systems

SAIC

Strategic Operational Solutions, Inc URS Federal Services International Inc

UXB Defense, Inc

Ultisat dba Speedcast Government

World Wide Technology Inc.