NATO Information Technology Modernization – RFI AoA Workshop

18th January 2022

NATO Headquarters Supreme Allied Command Transformation

Norfolk, VA, USA

Ground Rules

- All attendees should verify microphones are muted

- All questions will be addressed at the end of the presentation

- Questions should be asked using the chat panel

- If clarification is needed, attendees can raise their hand to request to speak

- The session will be recorded and posted to the ACT contracting page

- This session is public and classified information will not be discussed

Outline

- Purpose

- ITM Vision

- Roadmap

- Scope and Expected Benefits

- NATO Capability Development Process

- Timeline

- Q&A

Purpose

The purpose of this request is to involve Nations and industry through collaboration, in an examination of future capabilities related to the Information Technology Modernization program and services with a focus on the technologies and commercial products.

This request for information does not constitute a commitment to issue a future request for proposal (RFP). HQ SACT has not made a commitment to procure any of the items described herein, and release of this RFI shall not be construed as such a commitment, nor as authorization to incur cost for which reimbu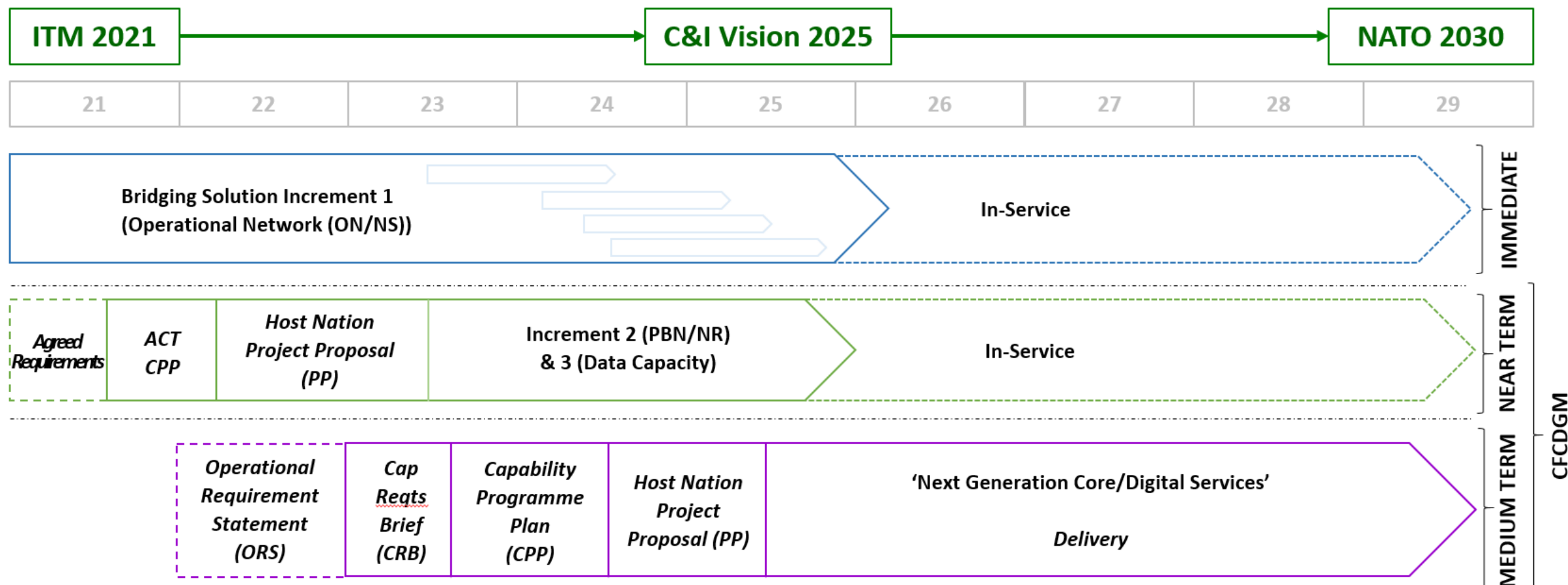rsement will be required or sought. Furthermore, respondents are advised that HQ SACT will not pay for any information or administrative costs incurred in responding to this RFI. The costs for responding to this RFI shall be borne solely by the responding party. Not responding to this RFI does not preclude participation in any subsequent RFP if issued in the future.

ITM Vision

- From a highly decentralized environment with each location possessing and operating their own equipment, expert servicing and capabilities.

- To a centrally managed, centralized IT infrastructure providing services to Standard Nodes or consumer sites in two domains (PBN / NR and ON / NS), providing IaaS, utilizing centralized provisioning, a centralized Service Operations Centre(s).

- The scope of this RFI is to provide a centralized **Protected Business Network** (PBN) allowing for NATO information **up to NATO Restricted** and providing the data storage and processing capacity necessary for the network and data synchronization across applications and services.
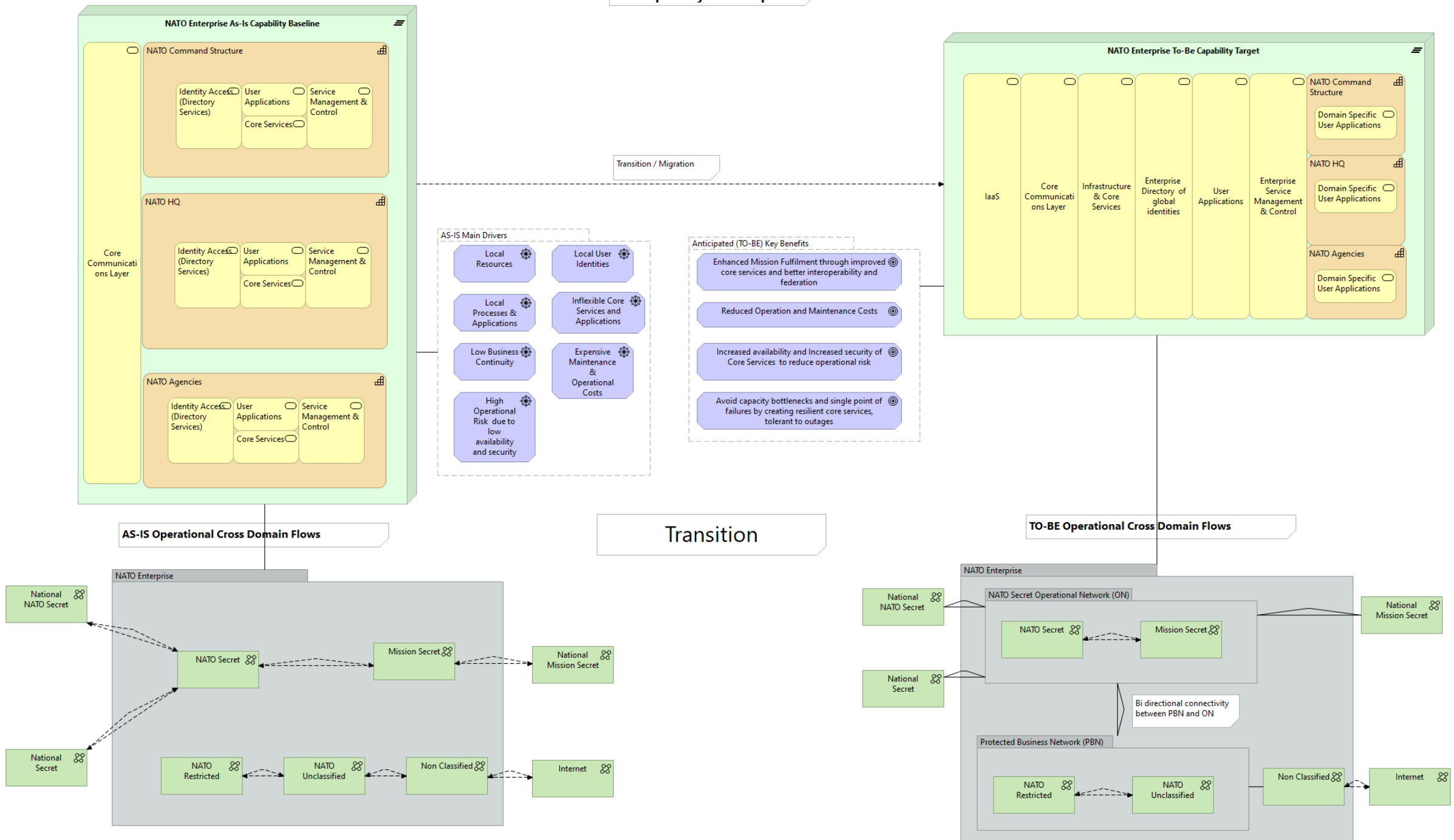
Governance Model

- **Common Funded Capability Delivery Governance Model (CFCDGM); main decision points:**
    - Operational Requirements Statement (ORS)
    - Capability Requirements Brief (CRB)
    - **Capability Programme Package (CPP)**
    - Project Proposal (PP)
    - Capability Acceptance Report (CAR)

Roadmap

ITM Transition Points

Cr - Capability Roadmap

NATO Enterprise As-Is Capability Baseline

NATO Command Structure
- Identity Access (Directory Services)
- User Applications
- Service Management & Control
- Core Services

NATO HQ
- Identity Access (Directory Services)
- User Applications
- Service Management & Control
- Core Services

NATO Agencies
- Identity Access (Directory Services)
- User Applications
- Service Management & Control
- Core Services

Core Communications Layer

Transition / Migration

AS-IS Main Drivers
- Local Resources
- Local User Identities
- Local Processes & Applications
- Inflexible Core Services and Applications
- Low Business Continuity
- Expensive Maintenance & Operational Costs
- High Operational Risk due to low availability and security

Anticipated (TO-BE) Key Benefits
- Enhanced Mission Fulfilment through improved core services and better interoperability and federation
- Reduced Operation and Maintenance Costs
- Increased availability and Increased security of Core Services to reduce operational risk
- Avoid capacity bottlenecks and single point of failures by creating resilient core services, tolerant to outages

NATO Enterprise To-Be Capability Target

- IaaS
- Core Communications Layer
- Infrastructure & Core Services
- Enterprise Directory of global identities
- User Applications
- Enterprise Service Management & Control

NATO Command Structure
- Domain Specific User Applications

NATO HQ
- Domain Specific User Applications

NATO Agencies
- Domain Specific User Applications

Transition

AS-IS Operational Cross Domain Flows

NATO Enterprise
- National NATO Secret
- NATO Secret
- Mission Secret
- National Mission Secret
- National Secret
- NATO Restricted
- NATO Unclassified
- Non Classified
- Internet

TO-BE Operational Cross Domain Flows

NATO Enterprise

NATO Secret Operational Network (ON)
- National NATO Secret
- National Mission Secret
- NATO Secret
- Mission Secret
- National Secret

Bi directional connectivity between PBN and ON

Protected Business Network (PBN)
- NATO Restricted
- NATO Unclassified
- Non Classified
- Internet

Physical Scope

- Singular network up to NR

- Scale:
  - Locations:
    - Static: 19 (13 countries) up to 32
    - Future: deployed
  - Users: 15,000 up to 25,000

- Interconnectivity to Operational Network (ON)

- Client infrastructure: from backbone to end user

- Service level infrastructure: data storage and processing power

Logical Scope

- Infrastructure as a Service

- Data and Application Migration/Management

- Identity Management

- Data Synchronization

- Office Automation

- Federated Mission Networking Compliance

Expected Benefits

- Scalability (foundation for future digital transformation)

- Resilience (minimize degradation)

- Availability

- Agility

- Tech refresh lifecycle management (obsolescence)

- Productivity

- Enhanced Cybersecurity

Cap Dev Process

Analysis of Alternatives

- Identification of Alternatives → <u>Data gathering through RFI</u>

  - Adopt: use a NATO Nation solution

  - Buy: procure existing commercial solution from Industry

  - Create: develop new system via Industry/NATO

- Assessment and comparison of alternatives:

  - Operational Effectiveness

  - Lifecycle Cost

  - Risk

- Recommendation of Adopt/Buy/Create approach

Program Timeline

Program Phase	Time	Comment
Maintenance/upgrade of current network	Now – 2025	
RFI and AoA	Q1 2022	ACT Lead
Phase 2: Capability Program Plan (CPP)	Q2 2022	ACT Lead
Phase 3: Project Proposal	Q2 2023	Host Nation Lead
Adopt (MoU) / Buy (ICB) / Create (Contract)	Q4 2023	Host Entity Lead
Phase 4: Delivery	Delivery	IOC Dec 2025 FOC Dec 2026
Phase 5: In service	2025	
Phase 6: Retirement	2030	

QUESTIONS

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RFI: https://www.act.nato.int/contracting/rfi-act-sact-22-05