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MILITARY OPERATIONS (MILOPS)

COMMUNITY OF INTEREST (COI)

Presented by:

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Joint Staff, J-6

10 April 2025

AGENDA

- Opening Remarks

- Project Governing Board (PGB) Minute

- NIEMOpen Business Advisory Committee (NBAC) & NIEMOpen Technical Advisory Committee (NTAC) Tools & Training Updates

- MilOps Implementations Updates

- Change Request (CR)

- MilOps Action & Goals

- Nominate Your Work

- Ideas for Next Meeting

- Discussion / Closing Remarks

PGB MINUTE AGENDA

- NIEM in the News (Press Releases, Articles)
  - NIEMOpen 6.0 presented at the Cybersecurity Interoperability Workshop & Plugfest 2 April 2025
  - NTAC welcomed an additional Chair from EY
  - NBAC welcomed an additional Chair from IJIS
  - NBAC & NTAC to meet in D.C. for 2025 Action Items, updated governance, etc.
- Status of
  - NIEM Model Version v6.0 PS02 Specification Progress & Features
  - Naming & Design Rules (NDR) v6.0 PSD01

NIEM MODEL V6.0 PS02

- NIEM Model v 6.0 PS02

- PS02 available: https://github.com/niemopen/niem-model/tree/dev

- Motion to Advance NIEM Model v6.0 PS02 to an OASIS Standard - **Approved by PGB 30 Jan 2025**

- Notification of PGB of special majority vote 7 April

- Vote 21-25 April

NDR V 6.0 PSD01

- NDR v 6.0 Project Specification Draft (PSD) 01
  Approved by PGB 20 Jan 2025

- What: A major rewrite of NDR 5.2

  - A new abstract UML metamodel defining the information content of a NIEM model

  - Two concrete model formats: XSD and CMF

  - Two supported message formats: XML and JSON

  - Simplified conformance rules for message schemas

  - Changes to augmentation and metadata

  - More explanation, (slightly) less technical detail

- PSD01 available: https://github.com/niemopen/niem-naming-design-rules

- Motion to Advance NDR from Draft to Project Specification

  Approved by PGB 30 Jan 2025

NTAC – NBAC TOOLS & TRAINING STATUS

- CMFTool

- API 2.0

- NIEM Toolbox

- NIEM 6.0 Beta Training (Virtual)
  - 6-8 May (est.) – 6.0 Release Beta Training via Teams
  - Email MilOps to request an invite & registration link: Js.dsc.j6.mbx.milops@mail.mil
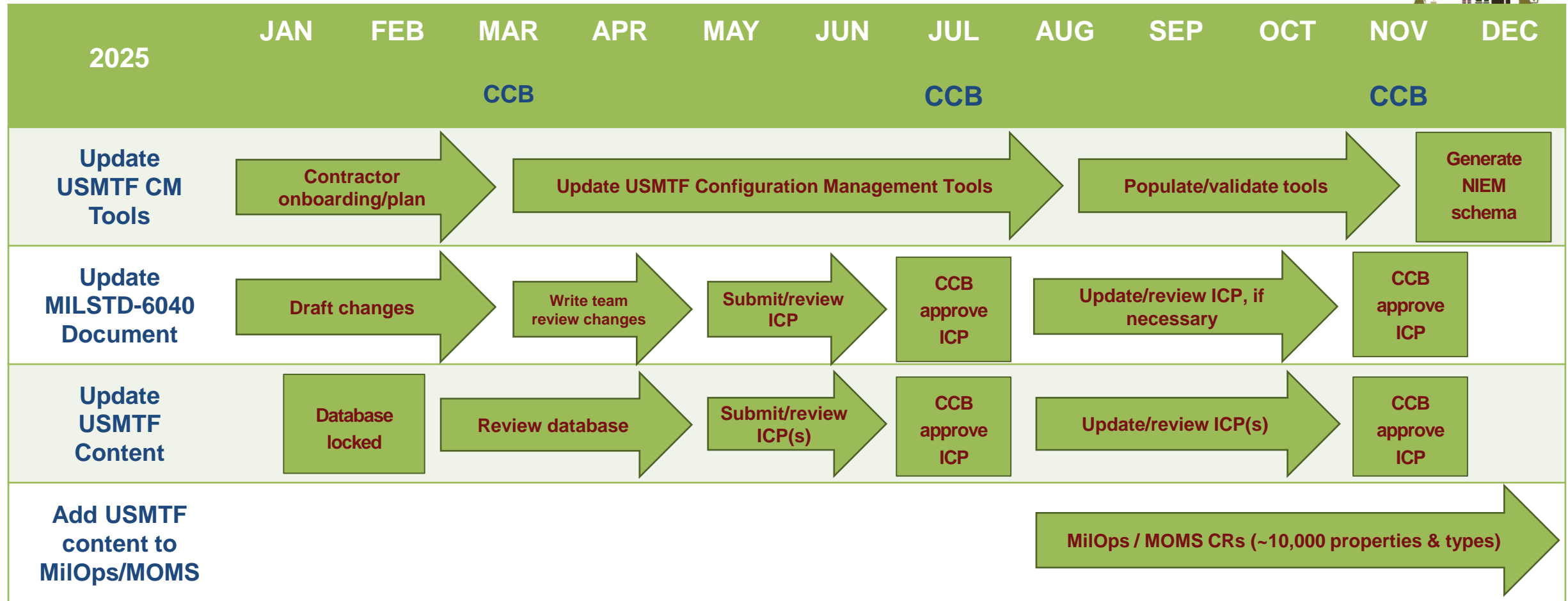
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MILOPS IMPLEMENTATIONS UPDATES

- USMTF to NIEM – DISA (See next slides)

- NCDF STANAG 5653 & Data Lake – NATO

- MIP/MIM – Army & MIP Community – Pending collaboration

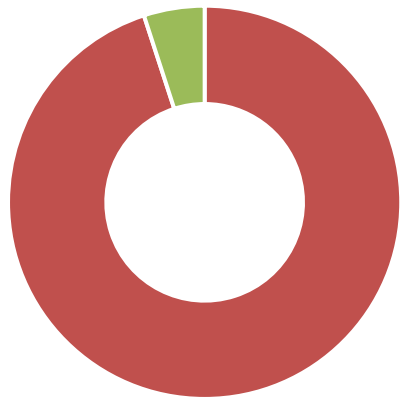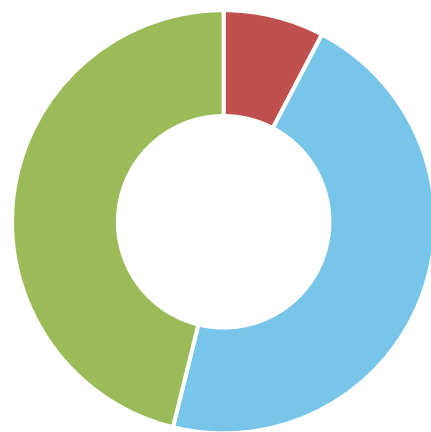- Use Case – DISA, Tom Carlson

  - UC2 4.0

USMTF ROADMAP

2025	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			CCB				CCB				CCB	

Update USMTF CM Tools

Contractor onboarding/plan → Update USMTF Configuration Management Tools → Populate/validate tools → Generate NIEM schema

Update MILSTD-6040 Document

Draft changes → Write team review changes → Submit/review ICP → CCB approve ICP → Update/review ICP, if necessary → CCB approve ICP

Update USMTF Content

Database locked → Review database → Submit/review ICP(s) → CCB approve ICP → Update/review ICP(s) → CCB approve ICP

Add USMTF content to MilOps/MOMS

MilOps / MOMS CRs (~10,000 properties & types)

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USMTF STATUS

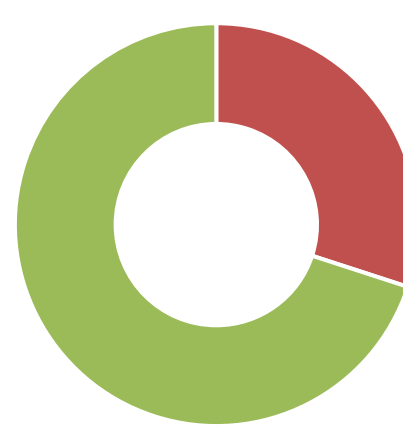## CM Tool Updates (Est.)

- Incomplete
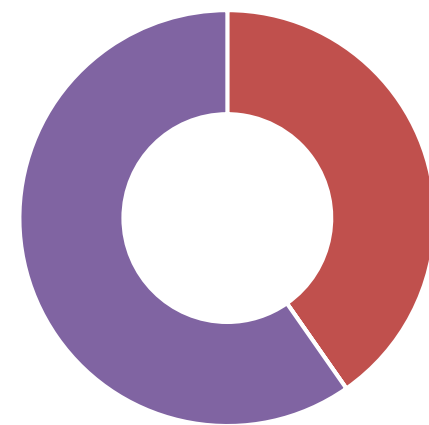- Complete

Mil-Std 6040 Updates

- Incomplete
- Chapters
- Appendices
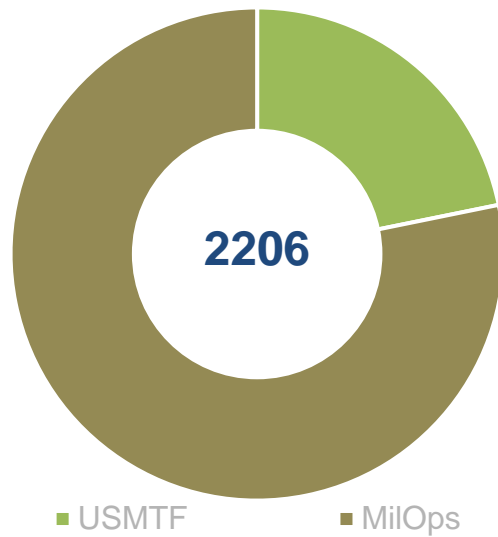
USMTF Updates (ICPs)

- Incomplete
- Complete

MilOps CRs

- Incomplete
- CR2024-01 (EMS)
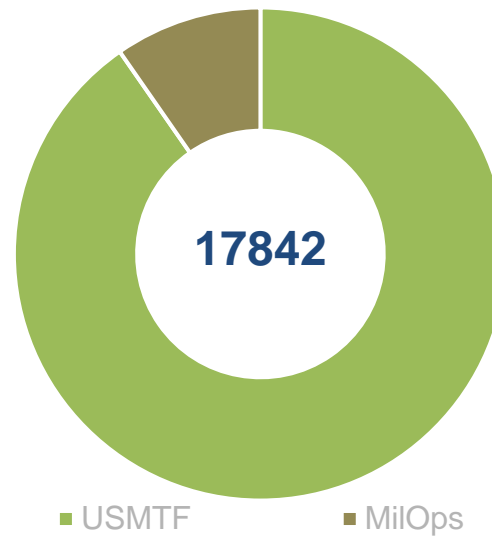- CR2025-01 (SIDC)
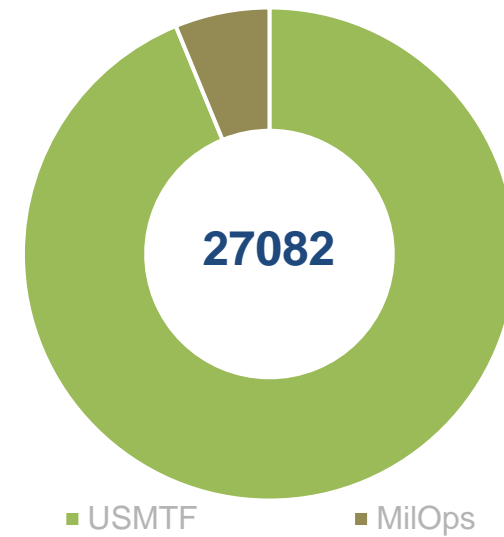- Current CR

USMTF DATA OBJECTS BREAKDOWN BY RELEASE

NIEM 5.1

2206

■ USMTF   ■ MilOps

NIEM 5.2

17842

■ USMTF   ■ MilOps

NIEM 6.#

27082

■ USMTF   ■ MilOps

FEATURED MILOPS USE CASE:

UC2 4.0 UPDATE
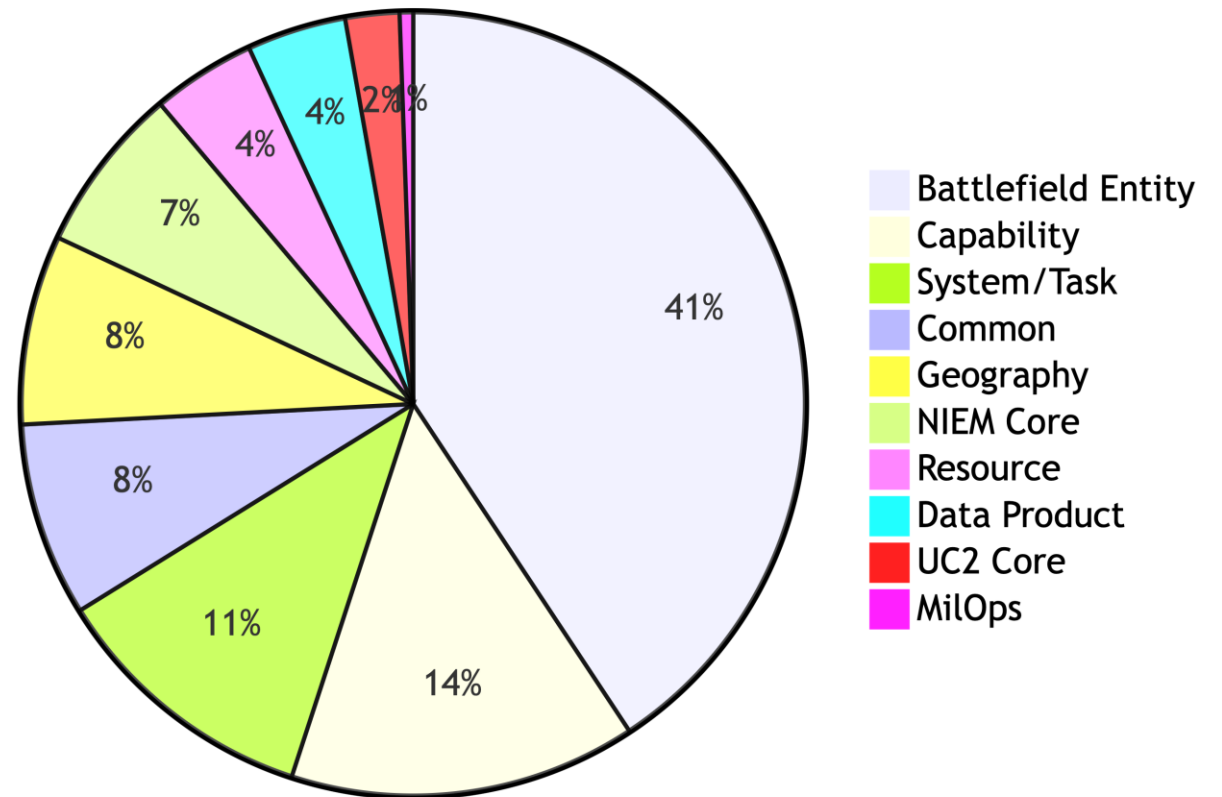
INTRODUCTION TO UC2

- Universal Command and Control (UC2)

- Evolvable data-centric machine-to-machine C2 language standard

- Bridges together legacy networks and/or systems, while enabling future systems

  - Sensors/Weapons/C2 systems

- Key in solving today's challenges of battlefield interoperability

- Developing adapters to work with unmodified existing platforms

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USE OF NIEM

- Uses NIEM 5.2
  - Elements
  - A few types as a base
  - Design patterns, e.g. augmentations, associations, references

UC2 Content by Domain

Legend:
- Battlefield Entity
- Capability
- System/Task
- Common
- Geography
- NIEM Core
- Resource
- Data Product
- UC2 Core
- MilOps

Pie chart values: 41%, 14%, 11%, 8%, 8%, 7%, 4%, 4%, 2%, 1%, 1%

USE OF NIEM

- Also follows many NIEM 6.0 design patterns
  - No roles
  - Extensive use of reference IDs to link objects
- Instantiates messages as XML, but also as TENA objects
  - Test and Training Enabling Architecture (TENA) is an architecture designed to bring interoperability to United States Department of Defense test and training systems
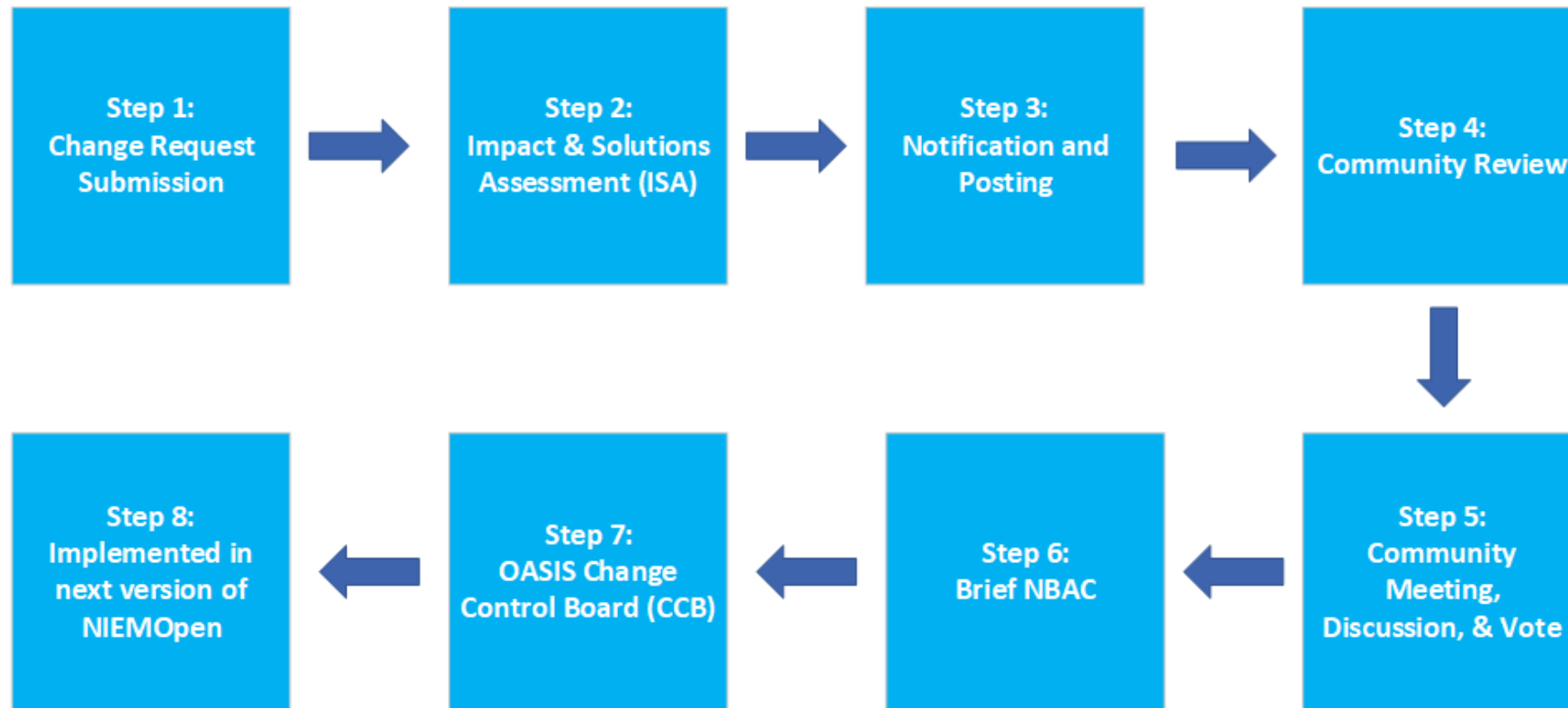
STATUS OF UC2

- Working on beta 2
  - Schemas
  - Sample instance messages
  - Documentation
  - Training
  - Multiple gateways
  - "Connectathons" for testing connections

CHANGE REQUEST (CR) PROCESS

MilOps Change Request Process

Step 1: Change Request Submission	→	Step 2: Impact & Solutions Assessment (ISA)	→	Step 3: Notification and Posting	→	Step 4: Community Review

Step 8: Implemented in next version of NIEMOpen	←	Step 7: OASIS Change Control Board (CCB)	←	Step 6: Brief NBAC	←	Step 5: Community Meeting, Discussion, & Vote

CR PROCESS UPDATE, SIDC REVIEW & VOTE

- Review efficiency update to CR process (https://github.com/niemopen/nbac-admin/tree/main/milops-subcommittee/change-request)

  - 2024-01 EMS – Additions to the MilOps data model approved 13 February 2025

    - Will be submitted for 6.01 release

    - NBAC/NTAC leadership to meet end of April to confirm release schedule

    - EMS is mapped, needs technical support to generate NIEM-conformant schema

- Review current CR2025-01

  - CR2025-01 – Addition of MIL-STD 2525-E (SIDC (Symbology))

  - If approved, will be submitted for 6.01 release

- Discussion

- Vote (Est. 12 April 2025)

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MILOPS ACTION & GOALS

Short Term

- Establish a quarterly newsletter
  - Status
  - Request contributions, questions
- Participate in CWIX 2025

Long Term

- Complete USMTF transition to NIEM
- Increase awareness & continue support of NIEM

NOMINATE YOUR WORK

- Nominate your Team's work with NIEMOpen to be considered for the annual NIEM Excellence Awards

- Deadline, 30 June 2025

- https://niemopen.org/awards/

Submission Tips

Q&A to help craft your submission.

Idea

+ What problem was addressed?
+ Why does it matter?
+ What makes it different?

Implementation

+ What was the roadmap?
+ Who was involved?
+ How did you do it?

Impact

+ What did the project make better?
+ How do you know?
+ What now?

IDEAS FOR NEXT MEETING

Potential Highlights

- Vote on MilOps Charter

- Use Case(s) – Volunteer(s)?
  - USAF STITCHES (drone message) - June
  - VA MEP development
  - DMDC MEP development
  - CJADC2 enterprise stakeholders
  - Potential Land Domain for MIP / MIM

- CRs
  - CR2025-01 – Addition of MIL-STD 2525-E (Symbology)

- 6.0 Training Status

- NIEM Excellence Awards Nominees

- Save the date! 12 June 2025 @1000

SUB-COMMITTEE CONTACTS

Sub-Committee Co-Chairs

- Beth Smalley
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Website

- niem.github.io/community/milops/

MilOps Email

- Js.dsc.j6.mbx.milops@mail.mil

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RESOURCES

OASISOPEN

oasis-open.org

NIEMOPEN

niempen.org

niem.gov/

Latest Release
NIEMOpen: niem.github.io/niem-releases/
MOMs: wmaafip.js.mil/ (CAC required)

GitHub

Git Repos
    github.com/NIEM/NIEM.github.io
    NIEMOpen: github.com/niemopen
    NTAC TSC (admin): github.com/niemopen/ntac-admin
    NBAC TSC (admin): .../nbac-admin
    NMO TSC (admin): .../nmo-admin

Groups & Mailing Lists
    NIEMOpen: lists.oasis-open-projects.org/g/niemopen
    NTAC TSC: .../niemopen-ntactsc
    NBAC TSC: .../niemopen-nbactsc
    NMO TSC: .../niemopen-nmotsc
    SLTT Tiger Team: .../niemopen-sltt

On the Website, select an option for access:

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THANK YOU!