

NIEM MILOPS

STAKEHOLDER ENGAGEMENT



Wednesday, 09 February 2022

Time	Topic	Presenter
1000 -1010	Opening Remarks / Introductions	Mrs. Katherine Escobar
1010-1020	NIEM 5.2 Release	Mrs. Christina Medlin
1020-1030	Metamodel	Dr. Scott Renner
1030-1040	NBAC Status	Mr. Kamran Atri & Mr. Thomas Krul
1040-1050	NTAC Status	Dr. Scott Renner & Mr. Mike Hulme
1050-1110	MEP Tool Demo	
1110-1125	Open Discussion	All
1125-1130	Closing Remarks	Mrs. Katherine Escobar

OPENING REMARKS / INTRODUCTIONS

Katherine Escobar

DOMAIN WAY FORWARD

- Transition from APAN to Github
- Domain Governance review
- Membership (audit and criteria)
- MOMS release, CJCSI, OASIS
- Survey

NIEM 5.2 RELEASE

Christina Medlin

NIEM 5.2

Notes

- NIEM 5.2 will be a minor release and will include updates to domains and code sets
- Check release status at <https://niem.github.io/niem-releases/>

Expected changes

- **Cyber** domain – Cyber Physical System (CPS) content
- **International Human Services** domain – *New domain*
- **Learning and Development** domain – *New domain*
- **MilOps** domain – USMTF content
- Code set updates

Phase	NIEM
<input checked="" type="radio"/> MOMS 5.1	March 2022
<input checked="" type="radio"/> Alpha 1	March 2022
<input type="radio"/> Beta 1	June 2022
<input type="radio"/> RC 1	September 2022
<input type="radio"/> Release	Fall 2022
<input type="radio"/> MOMS	Q1 2022

METAMODEL

Dr. Scott Renner

NBAC STATUS

Kamran Atri & Thomas Krul

NTAC STATUS

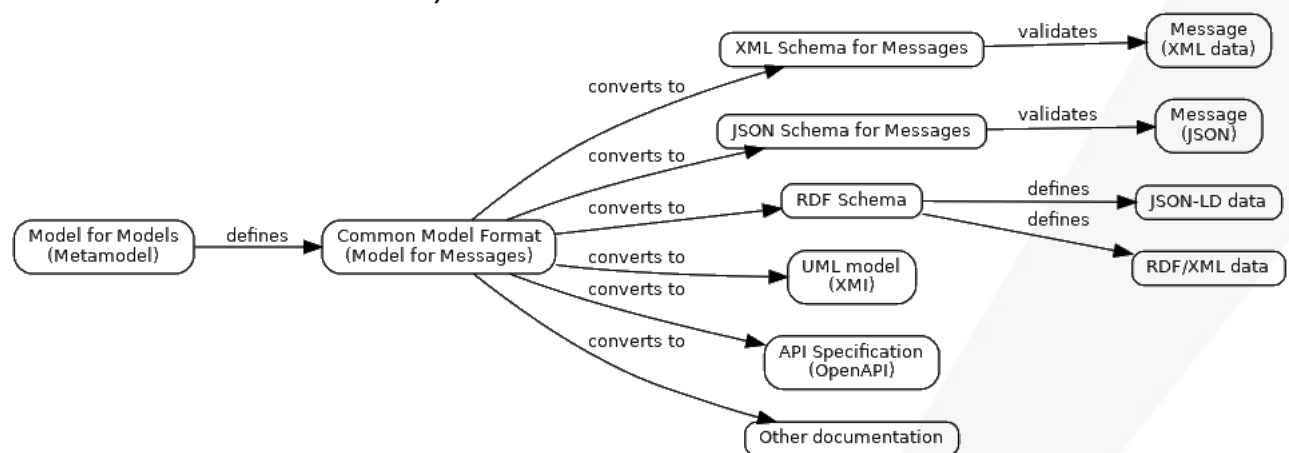
Dr. Scott Renner & Mike Hulme

CURRENT ACTIVITIES

- Common Model Format (CMF)
 - Multiple technology support (XML, JSON, RDF, ...)
 - Provide open-source CMF tools for developers
- Guidance for NIEM Message Specifications
- NIEM 6 Architecture improvements

NIEM COMMON MODEL FORMAT (CMF)

- Goal: Technology independence for data models
 - Before: Data models are represented as XML Schema documents
 - After: Data models are represented in the *Common Model Format (CMF)*
- The metamodel is the data model for CMF
- Benefits
 - The NIEM model (core & domains) can be used by developers working with many data formats (JSON, RDF, etc.), and not just XML
 - A single message model can support many message formats
 - A NIEM message in one format can be translated into other formats (XML to JSON, JSON to XML, etc.)



CMF STATUS & 2022 WORK PLAN

- Develop free, open-source metamodel / CMF tools
- Refine the metamodel / CMF as tool development proceeds
- Working now:
 - Metamodel / CMF version 2
 - Convert NIEM-based XML schema to CMF
 - Convert CMF to NIEM XML schema documents
- Planned for 2022:
 - Convert CMF to ontology formalism (RDFS+OWL)
 - Convert CMF to JSON Schema
 - Convert CMF to UML diagrams (XMI)
 - Convert UML diagrams to CMF
- Other technologies, eventually: Google Protocol Buffer, Apache Avro, YAML, etc.

NIEM MESSAGE SPECIFICATIONS

- The simplified next generation of IEPDs
 - Convention over configuration
 - Simple cases made simple, while complex cases still supported
- *Guidance for NIEM Message Specifications* in preparation now
 - A “how-to” guide, not a technical specification
 - Formal specification to follow, if needed

NIEM 6 ARCHITECTURE

- Major architectural changes happen only with a major release
- Next major release is NIEM 6.0 in 2023 (if so directed)
- Several significant changes in the works:
 - Replace XML Schema with CMF as the NIEM model representation
 - Simplify or replace metadata attributes
 - Handle ordered, repeated properties (replace @sequenceID)
 - Currently 14 other proposals
- For each proposal: consider, test, consult NBAC
- All in good time for v6.0 release

MEP TOOL DEMO

OPEN DISCUSSION

