



Q1 2018 Focus: Briefing NIEM 4.1 Release, NBAC/NTAC Monthly meeting, HART

By:OBIM, Biometrics Domain Steward

Editor's Note: NIEM News readers represent a broad audience of decision makers, stakeholders, practitioners, and users. Q1 2018 Focus features will cover topics that include NIEM 4.1 Release, NBAC/NTAC Monthly meeting, HART for National Information Exchange Model (NIEM) user Community. This newsletter offers an overview of notable changes and work being currently done on the domain.

NIEM 4.1 Release: As of Monday 02/05/2018 , The NIEM 4.1 alpha1 release package has been posted to <https://github.com/NIEM/NIEM-Releases/tree/dev-niem-4.1> . Major changes include updates to the Biometrics, Human Services, and Military Operations domains.The alpha1 draft of Core Supplement 4.0.1 is included as well. It can be found in the same package, under niem/niem-core/4.0/1.Feedback can be submitted until Wednesday, February 21 2018 in the issue tracker at (<https://github.com/NIEM/NIEM-Releases/issues>) or emailed directly to niem-comments@lists.gatech.edu

NBAC New Technology Tiger Team: During the most recent 01/25/2018 NBAC meeting members discussed below evolving landscapes including:

- Cross-domain Utility
- Emerging Technologies
- Connected Environments and Infrastructure
- Assistive and Connective Technology: Big Data, AI, ML, IoT.

Issues being handled or worked on are as below:

A. Incorporate JSON-LD into NIEM

1. Develop normative specification for NIEM JSON-LD
2. Develop tools supporting NIEM JSON-LD
3. Develop training modules for NIEM JSON-LD
4. Provide technical support for NIEM JSON-LD implementation

- B. Support Internationalization
- C. Support Open Data
- D. Support Sensor and Internet of Things
- E. Support Cross Security-domain exchanges
- F. Support Identity Management

HART: OBIM replacing replacing its existing identify management system , IDENT with HART
HART is developed in four increments.

In increment 1,HART shall have the capability to incorporate matching subsystems for additional fingerprint matching technologies and matching technologies for additional biometric modalities, specifically large scale iris and facial modalities.

Increment 2 shall introduce the capability to improve biometric matching accuracy by fusion of the matching results from multiple biometric modality matches.

Increment 3 will add additional biometric modalities for storage and retrieval but without biometric matching and will implement an expanded information sharing service with external customers.

Increment 4 will fully integrate OBIM biometric verification and identity management capabilities across biometric modalities and will introduce user-available reporting and online analytical processing (OLAP) applications for advanced data analysis along with the necessary data stores and processing infrastructure to support both the analytical processing and the enhanced reporting and analysis that OLAP enables.

Currently Increment 2 is in progress.

For more information and/or questions, please contact Thomas Freed at
Thomas.Freed@dhs.ice.gov