



# NIEMOPEN

## Discover The Value of NIEM

Achieving digital interoperability  
across all public and private  
sectors

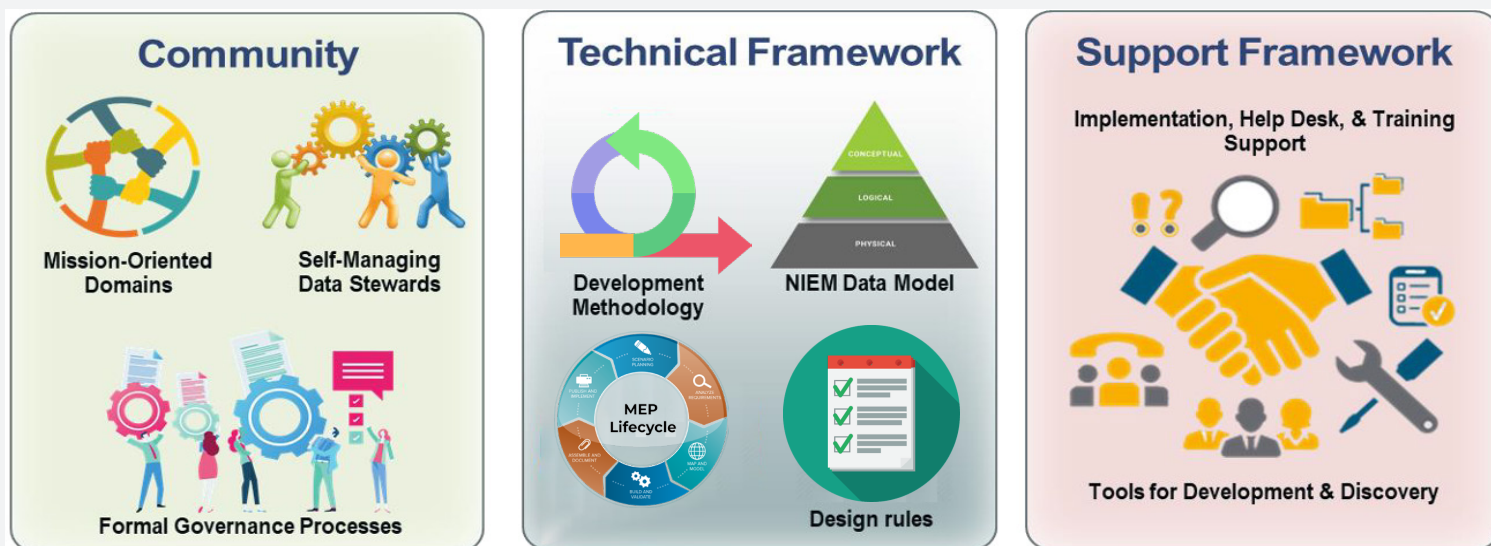
Established in 2005 by the U.S. Department of Justice and the U.S. Department of Homeland Security, NIEM is a community-driven, standards-based approach to facilitate information sharing.

Adopted by a multitude of organizations globally across a diverse group of public and private sectors, NIEM reduces design and development time for information exchange applications, and allows the reuse of intellectual capital and skills.

# What is NIEM?

NIEM Open is a community-driven standards development initiative producing multiple specifications that are voluntary consensus standards as defined in the Office of Management and Budget (OMB) Circular A-119, and in compliance with the open-standard mandate in section 12(d) of Public Law 104-113.

NIEM Open provides a working and collaborative partnership among governmental agencies, operational practitioners, systems developers, standards bodies, and other stakeholders across Federal, State, Local, Tribal, Territorial, International and Private organizations.



NIEM is an enterprise community-driven open standard-based approach to exchanging information.

Diverse communities can collectively leverage NIEM to increase efficiencies and improve decision making.



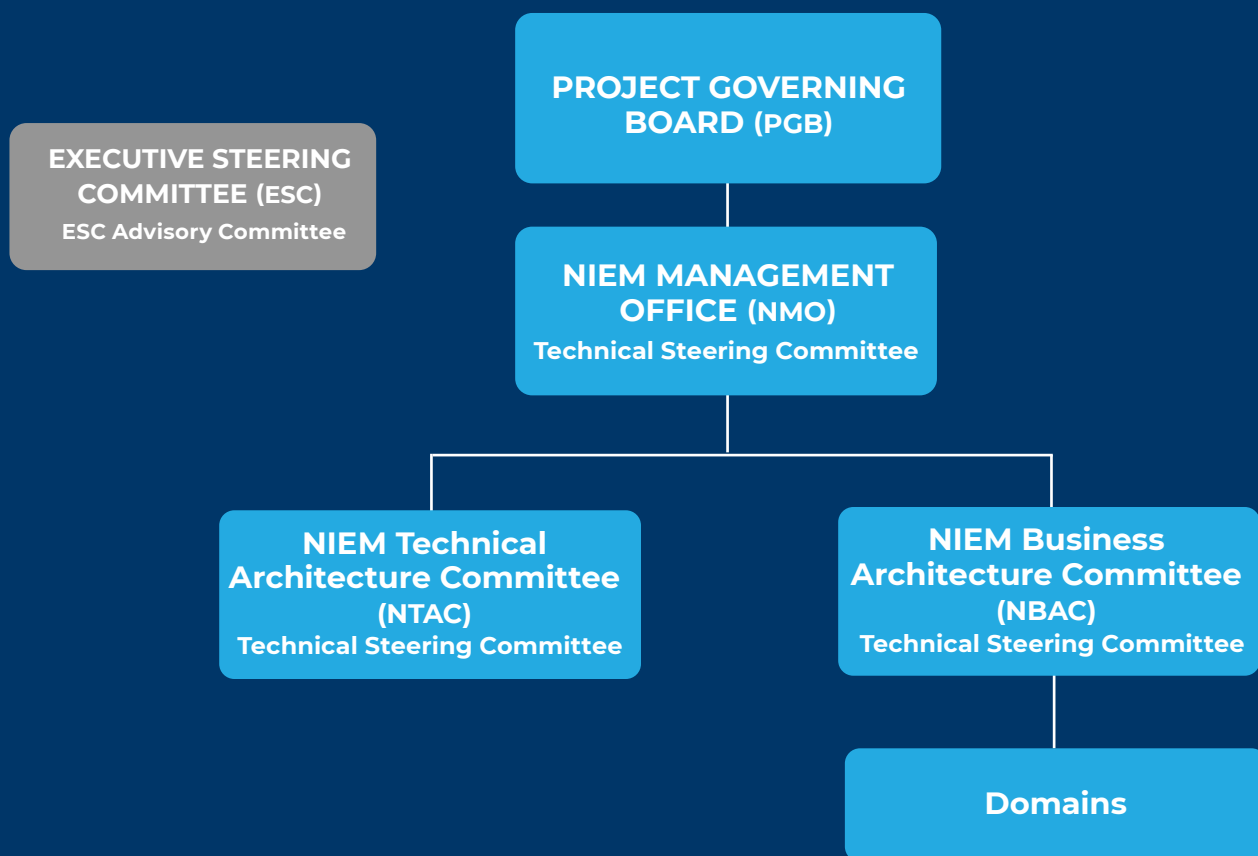
- Vendor Agnostic
- Open-Source
- Non-Proprietary
- Agile & Tailorable
- Scalable To Enterprise-Level

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# Organizational Governance

NIEM Open Project will operate under OASIS Open rules and the additional layers of NIEM governance documents.



## Overview of NTAC and NBAC

### NTAC

- The NTAC documents, implements, and maintains technical specifications for NIEM.
- Responsible for providing robust and effective development of the NIEM core structure and complementary processes to support and enable users to efficiently develop, use, and reuse NIEM-conformant model package description components.

### NBAC

- Provides management and oversight of the NIEM core, the central part of the NIEM data model that is commonly understood across all domains.
- Assists new domains in onboarding to the NIEM community and promotes interactions between domains to collectively guide the NIEM community.

# NIEM Management

The NIEM PGB Chair and Technical Steering Committees execute the PGB's vision while supporting core operations and strategy.

## Points of Contact



**Katherine Escobar**

Acting PGB Chair

katherine.b.escobar.civ@mail.mil



**Dee Schur**

OASIS Development & Advocacy

dee.schur@oasis-open.org



**Stephen Sullivan**

NBAC Liaison

stephen.m.sullivan14.ctr@mail.mil



**Mike Douklias**

NTAC Liaison

efthimios.d.douklias.civ@mail.mil

### TECHNICAL MANAGER



- Technical Training Coordination
- Support NTAC Activities & Releases
- Website Analytics & Content Strategy

### BUSINESS MANAGER



- Strategic & Tactical Event Planning
- Annual Report
- Value Proposition Messaging
- Domain Coordination

### STRATCOM MANAGER



- Branding Strategy & Compliance
- NIEM Success Stories
- Social Media Management
- Outreach & Marketing Material



**An  
Open  
Standard**

# Advancing NIEM Adoption

**OASIS Open Projects support shared community development of code, APIs, standards, and reference implementations in one place, under open-source licenses with a path to recognition in international policy and procurement.**

## NIEM Transition to OASIS

Transitioning NIEM to OASIS, an ANSI-accredited and ISO-recognized standards development organization:

- Brings NIEM on par with other already established data standards
- Increases adoption by international bodies such ISO/IEC and utility to stakeholders
- Preserves government investment
- Ensures long term viability for government
- Promotes global adoption
- NIEM benefits from a recognized SDO and open-source strategy to evolve NIEM

## Why OASIS Open Standard?

OASIS is a global, nonprofit consortium for advancing open standards and open-source projects which allows:

- Freedom to create a portfolio of complementary materials under one organizational umbrella.
- Option to advance appropriate deliverables through to OASIS Standard with the potential to be referenced by global SDOs including ISO, IEC, and ITU.
- Industry-vetted IP policies and world-class legal support.
- Clear rules to support strategic leadership and shared community development.

## Target Deadlines and Next Steps





# OASIS Core Services

**NIEM has reached a level of maturity where it will benefit from a more formal collaboration guided by a recognized standards development process that ensures transparency, participation, stability, reciprocity, and ease of access both during the development and long after the project is complete. OASIS provides all of this and is an ANSI accredited developer.**



## Participate

Secure the future of NIEM



## Sponsor

Protect and preserve the integrity of NIEM



## Support

Expand the NIEM footprint

## Service Offering Includes:

- ✓ Legal entity, management of trademarks and copyrights
- ✓ Contributor License Agreement administration
- ✓ Collaboration tool set: GitHub, mailing group, calendar, roster, ballot, chat, video meetings
- ✓ OASIS Standards process submission management
- ✓ Submission of approved deliverables to ISO, IEC, ITU via OASIS liaison
- ✓ Community management support
- ✓ Assistance in writing charter, Code of Conduct, other policies
- ✓ Governance administration and support
- ✓ Support for project assets such as website design, hosting, site maintenance, collateral and logo design
- ✓ Press, promotion & outreach to attract developers and sponsors
- ✓ Meeting planning and coordination
- ✓ Free public access to deliverables in perpetuity



# Become A NIEM Sponsor

## Benefits of Supporting NIEM

Sponsor NIEM to ensure this work continues to expand, and gain increased international recognition. **Sponsors will benefit by leveraging the freely available NIEM Standards and improve stakeholder's mission experience while saving time and resources.**



### PARTNERSHIPS

Tap into brain trust of NIEM experts from the public sector



### DEVELOPMENT

Help develop NIEM standards, incorporating your use-cases



### STEWARDSHIP

Opportunity to have a seat on the NIEM Board



### COMMUNITY

Unify fragmented efforts and encourage convergence



### VOTING RIGHTS

Determine if/when approved work should be submitted to ITU, ICC, UN, ISO, etc...



### COLLABORATION

Facilitate communication between private and public-sector

## OASIS Sponsorship

Organization Size/Type	Premier Sponsor	General Sponsor
2,000+ employees	\$60,000	\$26,500
500 - 1,999 employees	\$60,000	\$16,000
100 - 499 employees	\$60,000	\$10,600
10 - 99 employees	\$60,000	\$5,300
< 10 employees	\$60,000	\$2,200
Non-profit, university, non-OECD government entity	\$60,000	\$1,100

*\* Each NIEM Sponsor pays annual dues that cover core services*

# NIEM Drives Industry Standards

## Industry Standards that leverage NIEM:

**ANSI 42.42 Radiological Nuclear detectors – CBRN Domain**

**ANSI APCO Alarm Monitoring Company to Public Safety Answering Point (PSAP)**

**OASIS EXDL, Emergency Data Exchange Language FEMA (Emergency Management Domain)**

**NIST Big Data Framework Vol 7**

**Nation Fire Protection NFPA 950 calls for compliance with NIEM. Emergency Incident Data Document (EIDD) IEPD – NISTIR 8255**

**Biometrics ANSI/NIST ITL Standard – Biometrics Domain**

**Biometric Conformance Test Software (BioCTS)**

**BioCTS for AN-ITL v2 is a desktop application which tests electronic biometric data files, known as transactions, for conformance to NIST Special Publication (SP) 500-290**

**Conformance Test Architecture (CTA) and Test Suite (CTS) called "BioCTS for AN-2011 NIEM XML" designed to test implementations of AN-2011 NIEM XML encoded transactions.**

**NIEM Cited in patent – Integrated Environment for Developing Information Exchanges patent No: US 8,769,480 B1 Dated July 1, 2014**

**Model Minimum Uniform Crash Criteria Guideline (MMUCC) – Department of Transportation**



**ANSI APCO ALARM  
MONITORING**



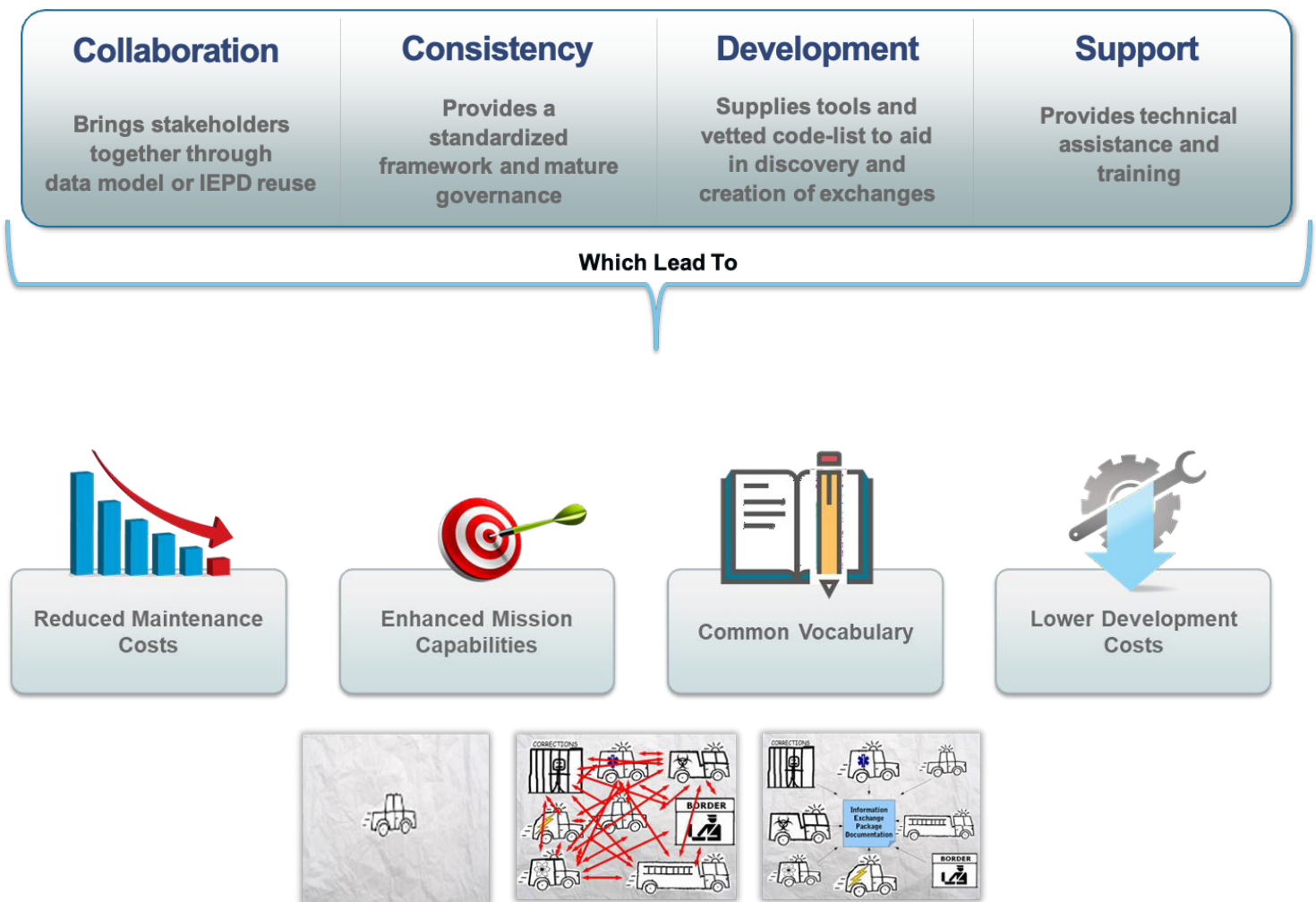
**BIOMETRIC  
CONFORMANCE**



**EMERGENCY DATA  
EXCHANGE**

# Why Use NIEM?

NIEM provides an extensive data model and dictionary, as well as a mature lifecycle, training curriculum, help desk, and program support. NIEM also allows a community of diverse stakeholders to agree on a common vocabulary.



# NIEM Engagement Process

The engagement process is a self-service model that includes tools and methods for organizations to:

1

## Assess Current State

Conduct a comprehensive assessment of the organization's current information sharing environment.

2

## Evaluate Cost & Benefit

Perform an analysis of qualitative and quantitative costs and benefits of NIEM adoption.

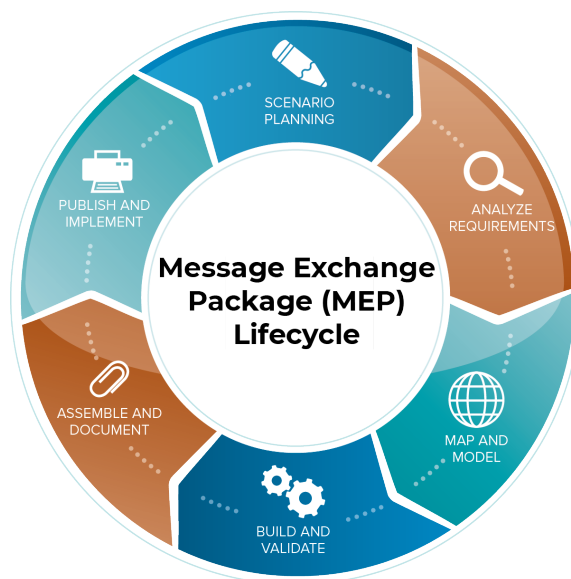
3

## Develop Roadmap

Identify "quick wins" and develop a tactical action plan for sustainable NIEM adoption.

## Results

- Identify information exchanges where NIEM can provide the most value to the organization.
- Develop a tailored action plan outlining how the organization can adopt and sustainably use NIEM for information exchange.



# NIEM Training

**NIEM training targets four distinct audience tracks that build NIEM knowledge across various participant levels. Instructors and training material are fitted for the particular audience so each participant receives exactly the type of training they need.**



## Executives and System Owners

The goal is to educate executives and system business owners on the emergence and importance of NIEM as information sharing and exchange best practice to increase discovery, reusability, and adoption.



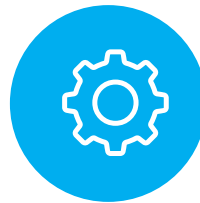
## Program and Project Managers

The goal is to educate program and project managers on the best practices for successful implementation of NIEM to make certain that their projects are NIEM-conformant, while promoting the adoption of NIEM throughout their organization.



## Business and Technical Architects

The goal is to educate architects on the technical foundation of NIEM in order to design and develop NIEM-conformant information exchanges.



## Exchange Designers and Implementers

The goal is to educate information exchange designers and implementers on the technical concepts specific to NIEM and the steps necessary for the creation, discovery, and reuse of NIEM-conformant information exchanges.



## Interested in NIEM training?



Video modules available at:  
[niem.gov/learn](https://niem.gov/learn)



# JOIN THE CONVERSATION



[NIEM.github.io](https://NIEM.github.io)



[Twitter.com/NIEMConnects](https://Twitter.com/NIEMConnects)



[Linkedin.com/groups?gid=1903175](https://Linkedin.com/groups?gid=1903175)



[YouTube.com/NIEMConnects](https://YouTube.com/NIEMConnects)

## **NIEM Management Office (NMO)**

1116B Lake View Parkway  
Suffolk, Virginia 23435

[Information@NIEM.gov](mailto:Information@NIEM.gov)  
[NIEMOpen@lists.oasis-open-projects.org](mailto:NIEMOpen@lists.oasis-open-projects.org)

[www.NIEM.gov](http://www.NIEM.gov)



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