



NIEMOPEN

Discover The Value of NIEM

Achieving digital interoperability
across all public and private
sectors

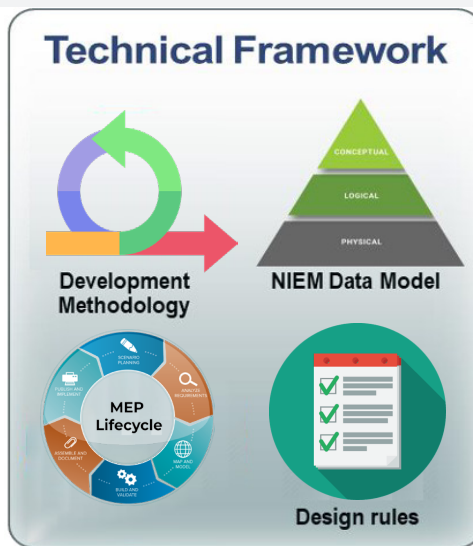
Established in 2005 by the U.S. Department of Justice and the U.S. Department of Homeland Security, NIEM is a community-driven, standards-based approach to facilitate information sharing.

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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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:

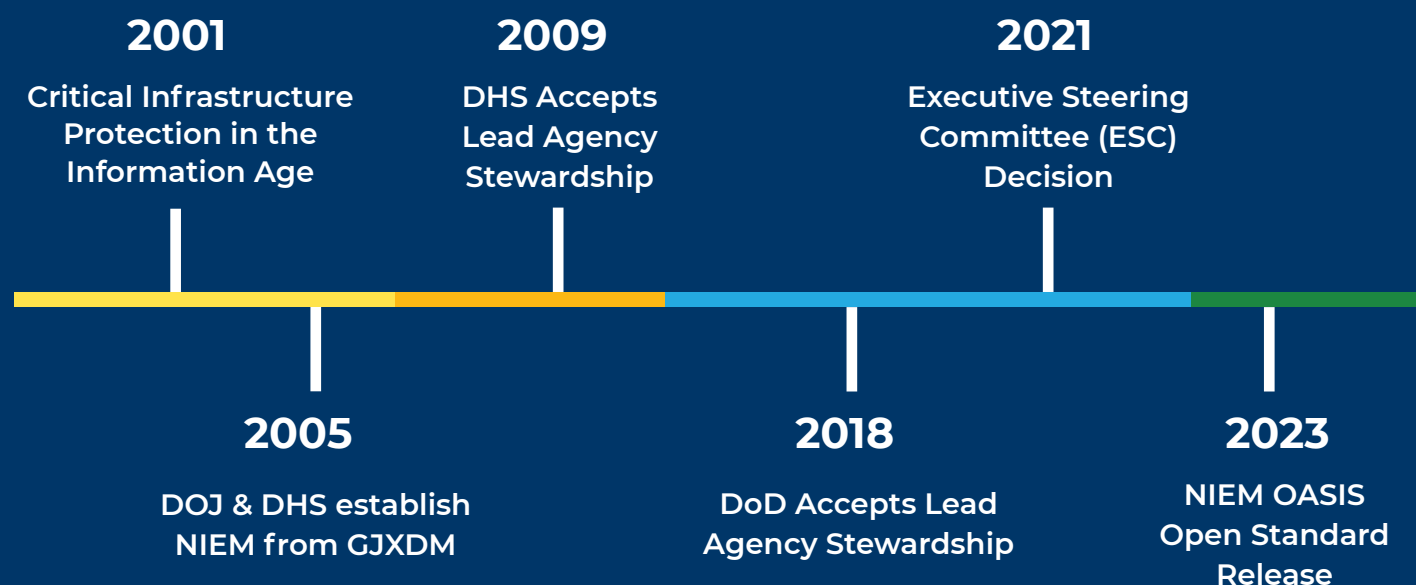
- ✓ Brings NIEM on par with other already established data standards
- ✓ Increases adoption by international bodies such as ISO/IEC and utility to stakeholders
- ✓ Preserves government investment
- ✓ Ensures long term viability
- ✓ Promotes global adoption
- ✓ NIEM benefits from a recognized SDO and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

Why OASIS Open Standard?

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

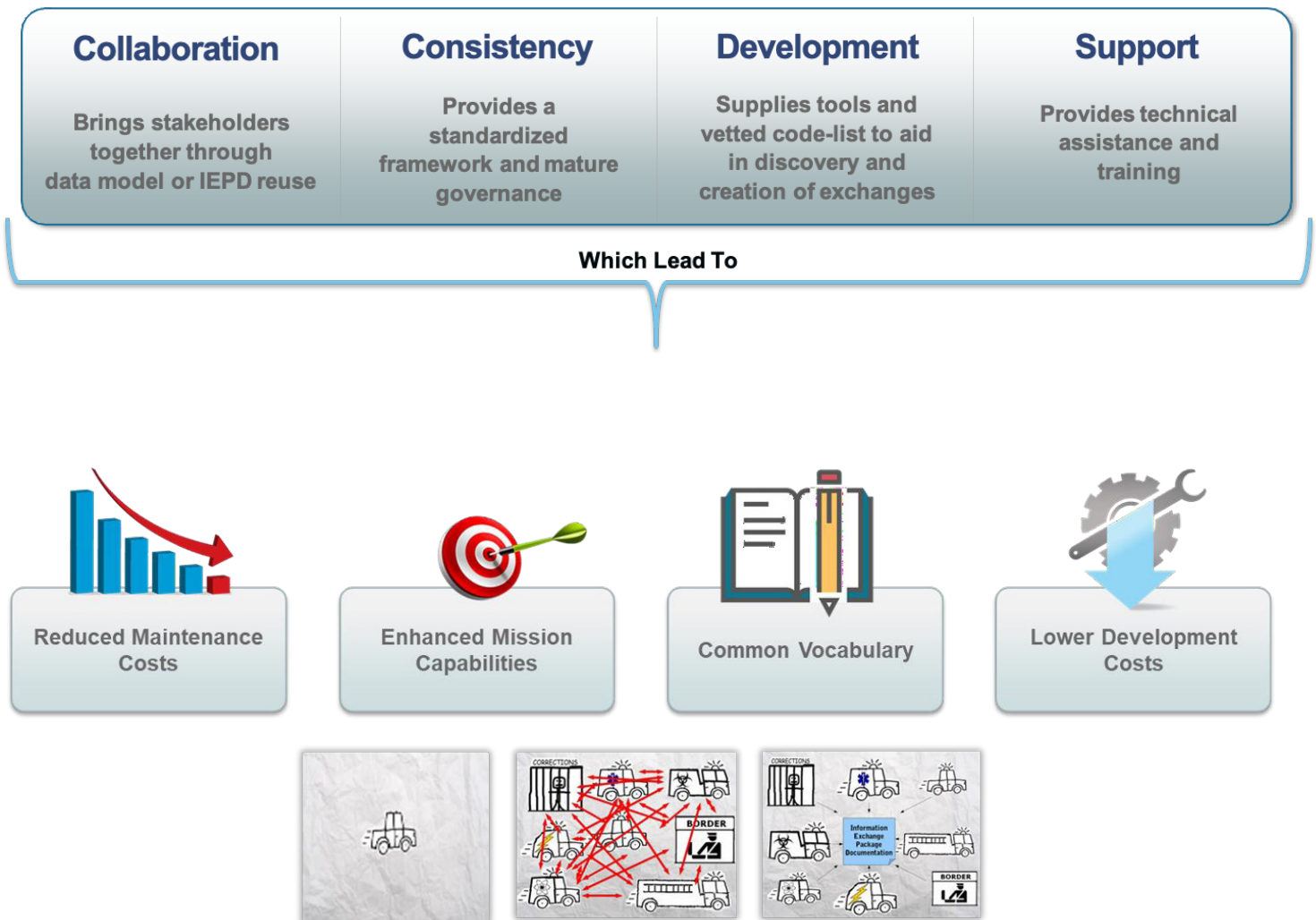
- ✓ Freedom to create a portfolio of complementary materials under one organizational umbrella.
- ✓ Option to advance appropriate deliverables through to OASIS Standard with the potential to be referenced by global SDOs including ISO, IEC, and ITU.
- ✓ Industry-vetted IP policies and world-class legal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

History of NIEM



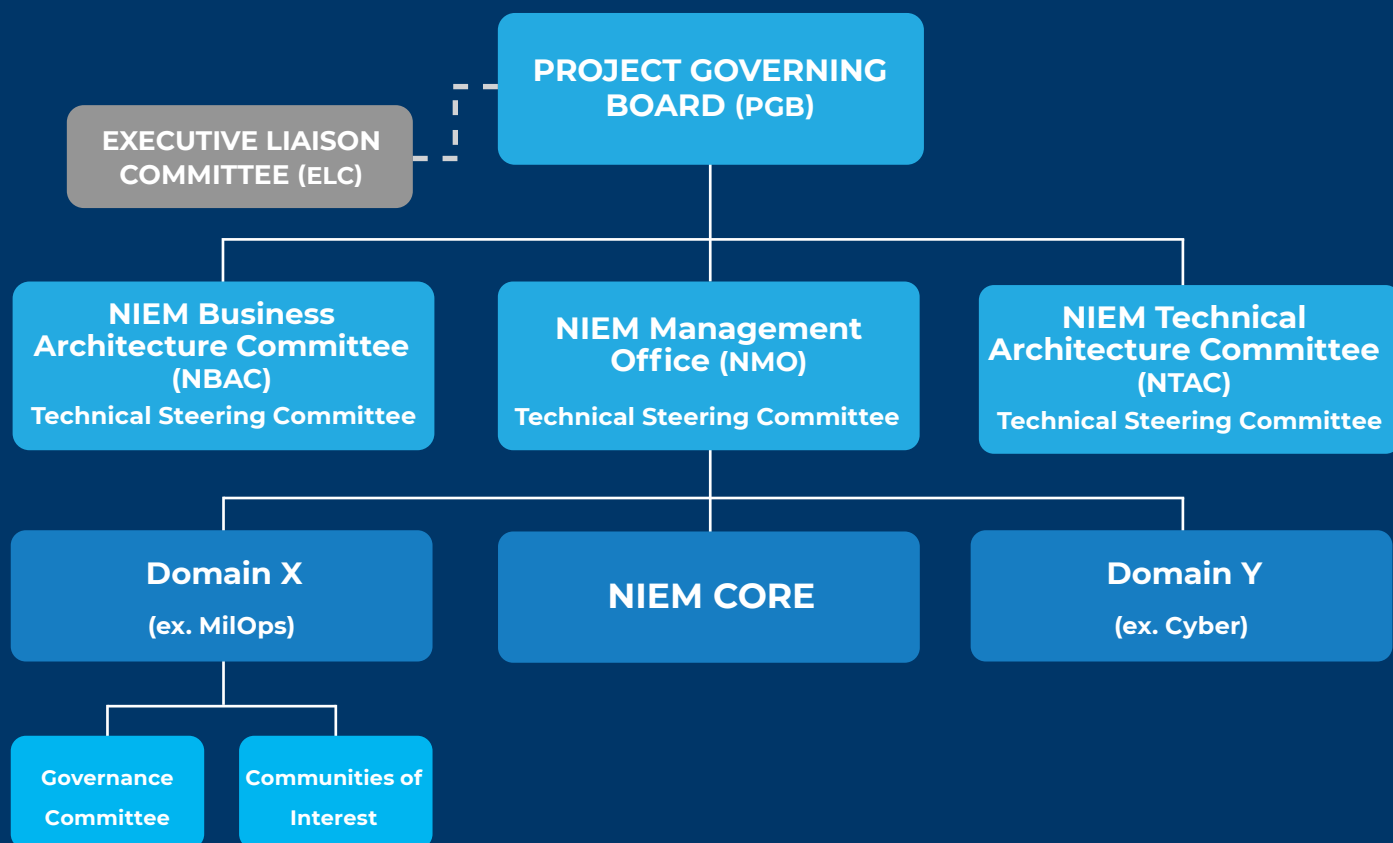
Why Use NIEM?

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.



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

PGB Chair

katherine.b.escobar.civ@mail.mil



Carol Geyer

OASIS CDO

carol.geyer@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**

Become A NIEM Sponsor

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

Why Sponsor an Open Project?

Organizations that sponsor an Open Project receive a seat on the Project Governing Board, where they:

- ✓ Oversee the technical agenda and marketing activities.
- ✓ Form a Technical Steering Committee and/or Marketing Group (optional).
- ✓ Appoint Maintainers and elect Chairs.
- ✓ Decide which work products to advance through standards process.
- ✓ Request OASIS submission of approved work to ISO, IEC
- ✓ Stand out on our website, social media, events, and press communications.



Who's Sponsoring NIEM?

View our latest sponsors:
niem.gov/sponsors

OASIS Sponsorship

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

2024 OASIS Sponsorship

Organization Size/Type	Premier Sponsor	General Sponsor
2,000+ employees	\$70,000	\$31,500
500 - 1,999 employees	\$70,000	\$19,000
100 - 499 employees	\$70,000	\$12,500
10 - 99 employees	\$70,000	\$6,300
< 10 employees	\$70,000	\$2,600
Non-profit, university, non-OECD government entity	\$70,000	\$1,300

** 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

Data Management (DAMA) International – Data Management Book of Knowledge (DMBOK2)



**ANSI APCO ALARM
MONITORING**



**BIOMETRIC
CONFORMANCE**



**DATA MANAGEMENT
BOOK OF KNOWLEDGE**

NIEM Design Patterns

NIEM design patterns will define ways NIEM can be used within specific environments or communities, with various technologies and standards, and to perform specific functions.



**Engage
Community**



**Develop
Findings
Report**

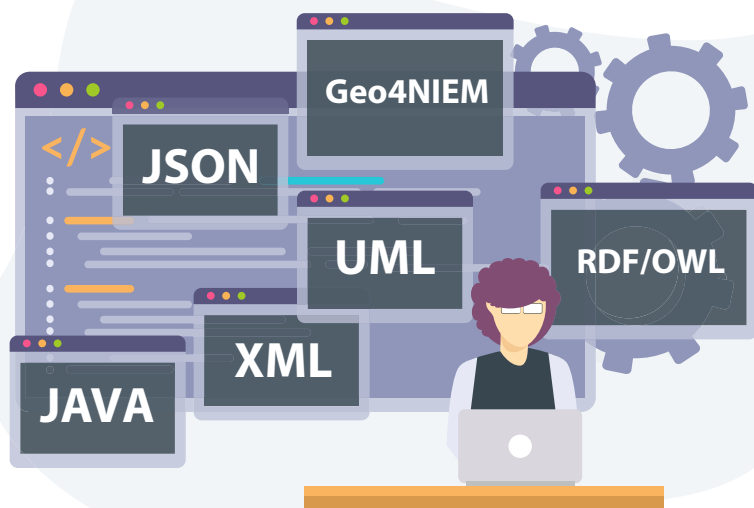


**Develop Design
Patterns
Catalog**



**Implement
Design Pattern**

Flexibility, Offering A Variety of Formats



NIEM Metamodel

The NTAC is developing a Common Model Format (CMF), which is technology-neutral.

A CMF data model can be expressed as XML, JSON or any other data serialization that NIEM supports. The data described by the CMF data model can also be expressed in any supported serialization.



Learn More:

[niem.gov/
metamodel](http://niem.gov/metamodel)

Advantages to Open Standards

| What is an Open Project?

- ✓ Open Projects is the first-of-its-kind program that creates a more transparent and collaborative future for open source and standards development.
- ✓ Open Projects gives communities the power to develop what they choose--APIs, code, specifications, reference implementations, guidelines--in one place, under open source licenses, with a path to recognition in global policy and procurement.
 - Engage open source community in distributed development while ensuring **work stays on-track**
 - Use **vett ed IP policy and open source licenses**
 - Work under **supported, streamlined process**
 - Submit work to ISO, IEC, ITU and/or EU for **international recognition** via PAS submitter status
 - Focus on your technical goals while OASIS staff takes care of financial, legal, and technical administration and marketing
 - Leverage OASIS global reputation, 2000+ member base, and experience running standards and open source projects
- ✓ Open Projects gives groups more control and streamlined governance. It provides all the process a community needs--and not a bit more--so groups can accomplish great things fast.

| Open-Source Benefits:

- ✓ The base to encourage innovation
- ✓ Breaking technical monopolization
- ✓ Strategic tools to promote software development for information
- ✓ The fundamental bases of SOA
- ✓ The strategic direction of NIEM

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.

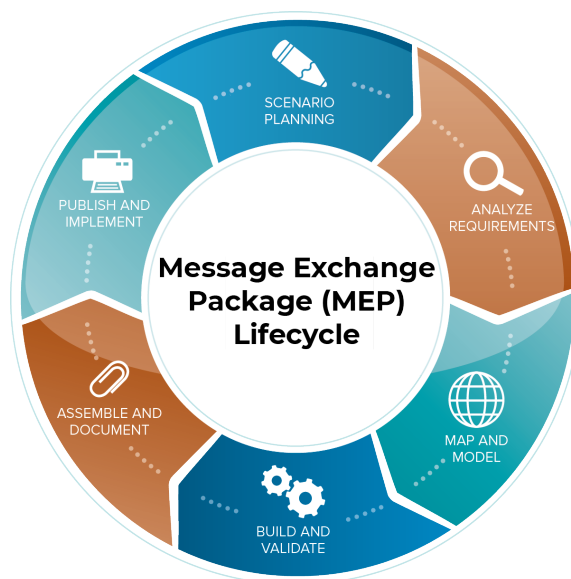
3

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.



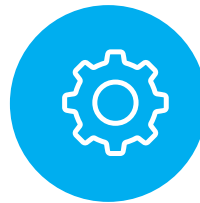
Program and Project Managers

The goal is to educate program and project managers on the best practices for successful implementation of NIEM to make certain that 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



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**NIEM.gov/
MailingList**

NIEM Management Office (NMO)

1116B Lake View Parkway
Suffolk, Virginia 23435

Information@NIEM.gov
NIEMOpen@lists.oasis-open-projects.org

www.NIEM.gov
www.NIEMOpen.org



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