

How Federal Data Programs Support Each Other

Scott Shoup, Senior Data Architect, Enterprise Architecture Branch/ITD, Federal Emergency Management Agency



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Setting Up the EM Domain

Scott Shoup, FEMA-EA



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Emergency Management (EM) Domain

- Enables the sharing of information among various emergency response agencies:
 - Emergency Management
 - Emergency Medical Services
 - Fire, Law Enforcement
 - Transportation
 - Others



Progress to Date

- Guiding documents and Agreements
 - Domain Stewardship Agreement
 - Charter
- Internal Meeting Among Domain Stewards
- Kickoff Meeting



Domain Stewardship Agreement

Between

The National Information Exchange Model
Program Management Office (NIEM PMO)

and

Department of Homeland Security
Federal Emergency Management Agency Information Technology
Directorate (DHS FEMA ITD)

and

Science and Technology Directorate (S&T) Office of Interoperability
and Compatibility (OIC)



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Domain Stewardship Agreement

Purpose

- To establish the Domain Steward that will govern and maintain the *Emergency Management (EM) Domain* dataset and define the expectations and responsibilities of involved parties.
- Domain Stewards: DHS FEMA ITD and DHS S&T OIC
- FEMA ITD and S&T OIC established a charter to govern roles and responsibilities.
- Status: In the approval process within FEMA and S&T



Domain Charter

Purpose

- To describe in detail the roles and responsibilities of IT-EA and OIC to steward the EM Domain

Scope

- Jointly manage the EM domain within the NIEM data model in support of DHS
- Aim to promulgate the EM Domain of NIEM as well as the Message Framework developed by OIC
- Establish a Community of Interest using OIC's current stakeholder structure as a base



Project Goals

- Set up a domain stewardship agreement and manage the EM domain governance structure between OIC and IT-EA
- Create a technical infrastructure for domain management activities including technical development, testing, review, and deployment of the EM contents to the NIEM data model
- Promote emergency management information sharing between Federal, states, local, and tribal by contributing harmonized EM contents to the NIEM data model and using the NIEM EM data model wherever appropriate
- Establish 6-month life-cycle project schedule that serves as roadmap for current and future work between OIC and IT-EA as it relates to the management and support of the EM domain within NIEM
- Establish the EM domain as the preeminent NIEM domain in terms of governance and data model precision
- Found an enterprise data exchange portal, combining base FEMA and DHS OIC programs, that will be accessible to all EM domain customers, utilizing a service-oriented architecture for universal consumption



Roles and Responsibilities

- **EM Domain Sponsors, Denis Gusty and Ira Grossman** – The responsibilities of the Sponsors include prioritizing the program goals, facilitating stakeholder participation, providing guidance to the DSMs and serving as a the official liaison and representative of the EM Domain.
- **Domain Steward Managers (DSM)** – The DSMs have the primary responsibility for advising and supporting the Sponsors, NIEM PMO and the NIEM Business Architecture Committee (NBAC) on business and technical issues of the EM domain.
- **Technical Staff** – The Technical staff support the DSMs by tracking technical work through a domain lifecycle project schedule.
- **Technical Review Board (TRB)** – The TRB is a subcommittee of key stakeholders, practitioners, advisors, and subject matter experts that provide guidance to the technical staff and DSMs.



Key Performance Measures

- The number of technical/operational issues resolved from the EM domain stewardship action items list.
- The number of reviewed and published papers providing official technical guidance and recommendations for various NIEM-conformant and implementation issues.
- The number of EDXL standards produced that are conformant to NIEM.
- The number of NIEM IEPDs completed based on the EM business requirements.
- The number of EM stakeholders' active participation and productivity.
- The number of EDXL and NIEM adoptions and use by industries and vendors. There is no current structure to collect this information. This measure is a future initiative.



Working within the EM Domain

Denis Gusty, Office for Interoperability
and Compatibility

Sukumaran Dwarkanath, PMO Support

October 21, 2009



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Kicking Off the EM Domain Stewardship

- Jointly held an EM Domain Coordination Kick-off Meeting September 15, 2009 to:
 - Create a shared understanding of the Charter and Agreement between OIC and FEMA
 - Promote program alignment among Federal agencies and offices
 - Identify and begin work to successfully set-up Domain stewardship and management



EM Domain Coordination Kick-off Meeting

- Attendees:
 - DHS S&T OIC
 - FEMA ITD
 - NIEM PMO/NBAC
 - FEMA Disaster Management (DM) Program
 - Emergency Interoperability Consortium (EIC)
 - Domestic Nuclear Detection Office (DNDO)
 - OASIS Emergency Management Technical Committee (EM TC)



Results: Established Core Operating Principles

- Participate
 - Endeavor to have the right stakeholders (from all disciplines and interests) participating in the process
- User-Driven
 - Allow the needs of standards users to guide standards development
- Issue Resolution
 - Resolve issues effectively and quickly through an established process
- Resources
 - Strive to match roles with the right skill sets



Results: Established Core Operating Principles

- Communicate
 - Provide a clear and cohesive message to stakeholders on behalf of NIEM and EDXL
- No “Wheel Reinvention”
 - Leverage what is being done in other Domains, other programs, other efforts (process, tools, and technology)
- Coordinate
 - Work and collaborate with other external standards efforts
- Measure
 - Establish and quantify performance measures to show success



Results (continued)

Additional Items that will need investigation in this effort include:

- Grants and Funding
- Harmonization
- Implementation Support
- Training
- Access Control
- COTS Interfaces
- Federation

Next Steps (6 months)

Funding and Resources	<ul style="list-style-type: none">• Develop a funding and support structure for the Domain internally
Stakeholder Coordination	<ul style="list-style-type: none">• Identify possible stakeholder management structures• Identify a wide-breadth of stakeholders to participate in EM Domain governance• Create opportunities to bring stakeholders together to continue to plan for and execute on the Domain

Next Steps (6 months)

<p>Outreach and Education</p>	<ul style="list-style-type: none">• Increase outreach and education efforts for the Domain• Craft an effective cohesive message about the effort for many different audiences
<p>Grants</p>	<ul style="list-style-type: none">• Establish an interface with grants offices within the Federal government to promote adoption of standards• Identify opportunities to provide guidance within existing grant programs



Next Steps (6 months)

<p>Technology Support</p>	<ul style="list-style-type: none">• Develop a versioning lifecycle process• Develop a roadmap to federation• Conduct proof of concepts• Develop training processes
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Baltimore OASIS and NIEM Event

- Bill Kalin, Contractor to OIC
 - 11 companies demonstrate
 - Demonstrated
 - CAP
 - CAP in DE
 - HAVE
 - NIEM IEPD Amber Alert
 - National Weather Service Alerts
 - IPAWS CAP Profile for EAS
 - Sensors, secure routers, cell phones, PDA's, EAS, email and instant messaging capabilities

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IAEM Orlando event

IAEM 57th Annual Conference & EMEX 2009
"Emergency Management: United We Stand"

Oct. 31-Nov. 5, 2009

**Orange County Convention Center/Rosen Centre Hotel
Orlando, Florida, USA**

<http://www.iaem.com/events/annual/intro.htm>

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For first time members

For instructions on getting an OPEN account and connection examples go to:

<http://openedx1capde.sourceforge.net/>

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