DoD Modeling and Simulation (M&S) Catalog

Today’s Presenters:
Roger Booker and Pauline Johnson - SimVentions, Inc.
Tammie McClellan - University of Central Florida
Institute for Simulation and Training

November 15, 2016

Moderator:
Steve Warzala
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Welcome

DOD MODELING & SIMULATION (M&S) CATALOG WEBINAR
Agenda/Outline

• Introduce presenters
  – Host: Roger Booker, SimVentions, Inc.
  – Tammie McClellan, UCF
  – Pauline Johnson, SimVentions, Inc.

• Overview of the M&S Catalog & Structure
• Walk-thru of the M&S Catalog Functions
• Walk-thru of the EMBR Portal Functions and Features
• Q&A
• Summary Review
History

• Align M&S with the DoD Net Centric Data Strategy
  – Optimize DoD Investment
  – Provide Visibility to Assets
  – Make Resources Available for Reuse
• M&S Community of Interest (COI) is formed
• M&S COI-Defense Metadata Schema is developed
• Defense M&S Catalog is born, Concept of Operations:
  – Local Management
  – Enterprise Discovery

https://mscatalog.msco.mil
Overview of M&S Catalog & Structure

- Providing Visibility into M&S Resources Across the DoD
  - Discover, Reuse, Repurpose
    - Contextual searches (like Google)
    - Includes Federated sites outside of the Catalog
    - View relationships between assets
  - Multiple methods to contribute and manage resources

Enterprise Discovery
IBM Watson powers the back-end search engine of the M&S Catalog. Specific interface was designed to support M&S.

Contribute Web Service
Custom developed web service that supports electronically publishing M&S metacards to the M&S Catalog.
Contributing Resources to the Catalog

EMBR

Local Control & Management

GOTS Tool. Companion to the M&S Catalog. EMBR locally manages resources for organizations and contributes selected records to the M&S Catalog through the S2S publishing process.

• Create “metacard” records
• Each organization has its own partition
• Choose to share created records with—
  • others in the organization
  • others in the EMBR Portal
  • everyone in the M&S Catalog (by publishing to the Catalog)

Send email to HelpDesk@mscatalog.msc.mil for assistance in becoming a Source Provider and getting started with EMBR or publishing to the M&S Catalog from your existing system.

Local Control & Management

Your organization’s IT system can be used to locally manage and then export compliant metacards to send directly to the M&S Catalog through the S2S publishing process.

• Requires some setup and programming by organization to export metacards.
• You remain in control of which records to publish to the M&S Catalog.
Accessing the M&S Catalog

• Requires DoD approved PKI certificates at medium hardware assurance or high assurance:
  – DoD Common Access Card (CAC)
  – Personal Identity Verification (PIV): currently available for: Department of State, Department of Treasury, Department of Justice, Department of Energy, and Department of Homeland Security

• Requires user registration and authorization

• All metacards must contain unclassified data
  – Metacards can describe classified resources
  – Information provided must be unclassified, designated at a level mapping to Distribution Statement A (public release) or C (federal government and contractors)
M&S Catalog: Welcome Page

URL: https://mscatalog.msco.mil
1. The Resource Icons allow you to narrow your search. As a best practice, the All icon is selected by default.

2. The Include Federated Sites check box allows you to simultaneously conduct and include search results from sources outside of the M&S Catalog. Select the link to view the list of external sites that will be included. This list is updated as new sources are identified.

3. A user manual is available under the ? located next to the search bar. It offers tips for advanced searching, filtering results, etc.
M&S Catalog: Searching for Text

Searching the Catalog is as easy as typing in the search box.

1. Type a keyword in the Search for dialog box. As you type, a drop down of selections will appear. You may use your mouse to select from any of these suggested phrases.

2. To search for only the keyword you entered, hit the enter key or select the magnify glass icon to start the search.
The Defense Office of Prepublication and Security Review (DOPSR) has reviewed/cleared this document for public release (Case No. 17-S-0110).
M&S Catalog: Saving your Search Results

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M&S Catalog: Resource Details

TSUNAMI Blue Force Order of Battle (TSU Blue)

Subtitle: Type: tool
Version: 1.3
Description: Demonstration data only. TSUNAMI and its components are made-up names, and the related metacards and data payloads are for demonstration purposes only.
Dates:
2014-11-19 created

POCs:
Pauline Johnson (proponent)
SimVentures
540-372-7727 (work)
pjohnson@simventures.com (work)
Pauline Johnson (copyright holder)
SimVentures
540-372-7727 (work)
pjohnson@simventures.com (work)
Pauline Johnson (technical POC)
SimVentures
540-372-7727 (work)
pjohnson@simventures.com (work)

Related Resources:
TSUNAMI

Resource ID: TSU_blue

Releasability: A; Unlimited distribution
Classification: U
Owner/Producer: USA

Metacard ID: 1497
Metacard Created: 2014-12-29
Metacard Last Updated: 2016-09-12
Metacard Last Verified: 2016-09-12
Metacard Source Provider: SimVentures
Metacard Releasability: Not Reviewed

Resource Relationships:

<table>
<thead>
<tr>
<th>Resource Name</th>
<th>Relationship Type</th>
<th>Resource Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSUNAMI</td>
<td>has a</td>
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</tr>
<tr>
<td>TSUNAMI Operators Manual</td>
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<td>Simulation</td>
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<td>TSUNAMI Power Point Slides</td>
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**Dates:**
2014-11-19 created

**Keywords:** demonstration mission level constructive amphibious assault simulation blue force module

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**Related Resources:**
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Local Control and Management

ENTERPRISE METACARD BUILDER RESOURCE
IBM Watson powers the search engine of the M&S Catalog.

**Enterprise Discovery**
- IBM Watson powers the search engine of the M&S Catalog.

**Discover, Reuse**
- Contextual searches (like Google)
- Includes Federate sites outside of the Catalog
- Views relationships between assets
- Discovers assets for *discovery, reuse, and interoperability* of Modeling and Simulation resources

**Local Control and Management**
- Create “metacard” records
- Each organization has its own partition
- Choose to share created records with—
  - others in the organization
  - others in EMBR
  - everyone in the M&S Catalog (by publishing to the Catalog)

**Local Control & Management**
- EMBR locally manages resources and contributes records to the M&S Catalog through a publishing process.
EMBR

- Access records that are available to you
- Create metacards
- Publish metacards to the M&S Catalog
- Update existing metacards
- Manage records you own
- Visualize Relationships
Login to EMBR

The Enterprise Metacard Builder Resource (EMBR) Portal is a web-based, GOTS tool that enables users to develop and manage DoD-standard metadata describing modeling and simulation (M&S) assets. This tool enables engineers and senior decision-makers to easily capture, analyze, and reuse M&S assets.

- Search and evaluate M&S assets for potential reuse
- Develop and submit DoD-compliant metadata automatically
- Plot geospatial M&S resources on a map
- Visualize relationships between M&S assets

Login  Register
EMBR Landing/Search Page

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EMBR Search Results
Create a Metacard
Create a Metacard

Create new Resource

NOTE: The fields on this form describe the resource, not the metacard that is being created.

Basic Info*
Dates*
Uploads
Locations URL(s)
Related Resources
Related POCs
Keywords*

Additional Fields

☐ I certify that all information entered on this form is Unclassified.

Save Cancel
Create a Metacard

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Create a Metacard

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Create a Metacard
Create a Metacard

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Create a Metacard

File uploads are disabled for resources that are not Releasability A or Not Reviewed.

I understand that ALL uploaded files must be Releasability A: Unlimited Distribution

Locations URL(s)
Related Resources
Related POCs
Keywords*
Create a Metacard
Publish a Metacard to the Catalog
View Metacard Relationships
EMBR Summary

- GOTs Tool
- Partitioned workspace
- Create “metacard” records
  - Person
  - Organization
  - Resource
- Establish relationships
- Publish to M&S Catalog
M&S Catalog Summary

- Thousands of valuable assets
- Supporting DoD Net Centric Data Strategy
- Robust search capabilities
- Register and start using
- Become a Source Provider and contribute
QUESTIONS?
Thank you!

- For more information, or to register for the M&S Catalog and/or EMBR, please visit:

  https://mscatalog.mSCO.mil