What’s Out There and Where Do I find it: Enterprise Metacard Builder Resource Portal

Gary W. Allen, PhD
Project Manager
Joint Training Integration and Evaluation Center
Orlando, FL

William C. Riggs
Senior Professional Staff
Johns Hopkins University Applied Physical Laboratory
Laurel, MD

NDIA Systems Engineering Conference
San Diego, CA
26-27 October 2011
M&S Driving Issues

Growing Demand for LVC Interoperability

Redundancy of Tools, Data, Gateways & Repositories

Numerous, Parallel Architectures (HLA, DIS, CTIA, TENA)

Legacy Systems vice Innovation
Purpose:
- “Develop a future vision and supporting strategy for achieving significant interoperability improvements in LVC simulation environments.”

Focus:
- Technical Architecture
- Business Models
- Standards Evolution
- Management Process

Precepts:
- Do no harm
- Interoperability is not free
- Start with small steps
- Provide central management
LVCAR-I Progression

- Standards - FEAT & DSEEP Overlay
- Tool Set Design - Common Data Formats, Reuse & Repositories, Gateways & Bridges, Common Object Models
- Net-Centric - SOA Concept Pilot

LVCAR Study Recommendations (FY08)

Implementation & Transition (FY11-13)

Engagement Activities with M&S COIs (FY08-FY10)
LVC Asset Reuse: Objectives

- LVC Asset Reuse Implementation Plan identified three objectives:
  - Enhancement of discovery and acquisition of reusable M&S assets (Transactional Mechanisms)
  - Exploration of improved collaboration to improve reuse (Social Marketing Mechanisms)
  - Enhancement of M&S systems engineering processes and guidance (Process-based Mechanisms)

- The EMBR Portal:
  - Facilitates the implementation of the DoD Netcentric Data Strategy for communities enabled by M&S
  - Addresses the immediate need for improvement of M&S Asset reuse (Discovery, Acquisition of Existing M&S Capabilities)
  - Complements other related DoD M&S Enterprise resources and tools (Collaborative Sharing of M&S Resources)
Capabilities and Services for Supporting M&S Discovery/Reuse

**EMBR Portal**
- A way to create metacards (MSC-DMS)
- Provides cloud-based data locker
- Edit / Collaborate / Search / Track Metacards
- Post / Evaluate Feedback
- Submit Metacards to Storehouse
- Localized or Web-Based Deployment

**M&S COI Discovery Metadata Specification (MSC-DMS)**
- A way to describe M&S resources
- Consistent w/ DoD Net Centric Data Strategy
- Represents an M&S COI extension of the DoD Discovery Metadata Specification (DDMS)

**M&S Catalog**
- A way to search across the enterprise
- Sources send MSC-DMS formatted records to Catalog
- User interested in a resource can learn of availability from multiple repositories w/ single query

**Other** (e.g., JDS)
Producers and consumers need a common specified way to label and describe M&S assets.

Making Assets Discoverable Through Metacards

Metacard Upload Process

If (Asset == (Built | Updated | Transformed)) then
{
    CreateMetacard(Title,Type,Description,POC,Keywords);
    UploadMetacard(LVCAF-Repository);
}

Metacard Feedback Process

If (Asset == Used) then
{
    UpdateMetacard(Usage.Experience);
}
The EMBR Portal provides a means for M&S producers and consumers to collaborate on metadata content and to exchange information and feedback on M&S usage.

<table>
<thead>
<tr>
<th>Capability</th>
<th>Developer</th>
<th>Integrator</th>
<th>Consumer</th>
</tr>
</thead>
<tbody>
<tr>
<td>To develop/modify a metacard</td>
<td>create / update</td>
<td>update / augment</td>
<td>augment (use experience)</td>
</tr>
<tr>
<td>To discover metacard instances</td>
<td>see how it has proliferated</td>
<td>proliferation/ availability</td>
<td>see what’s available</td>
</tr>
<tr>
<td>To evaluate application use</td>
<td>gather feedback (for update)</td>
<td>feedback / learn</td>
<td>learn how it’s been used</td>
</tr>
</tbody>
</table>
The EMBR Portal provides a shared space for both structured and unstructured review of discovery metadata in MSC-DMS format.
EMBR Portal GUI and Functions: Overview

- Login and registration
- An online support system enables users to submit trouble tickets and seek assistance on using the EMBR Portal
- Search and discover capability:
  - Indexed search of metacards using Lucene search engine
- A bookmark capability to mark metacards of interest
- A personal workbench capability that:
  - Lists previous search queries
  - Lists bookmarked metacards of interest
  - Provides access to a data locker that contains metacards managed by the owner
  - Enables the user to request collaboration with another metacard owner
  - Edit or builds metacards
- A personal workbench capability that:
  - Comments on existing metacards
- The feedback mechanism provides asset usage experience contained within an M&S asset metacard (MSC-DMS format)
- The collaboration capability enables two or more people to work on and discuss development of a metacard
- External interfaces to exchange data with existing catalogs, repositories, and registries
EMBR Portal GUI and Functions: Search and Discovery

- Login and registration
- An online support system enables users to submit trouble tickets and seek assistance on using the EMBR Portal
- Search and discover capability:
  - Indexed search of metacards using Lucene search engine
- A bookmark capability to mark metacards of interest
- A personal workbench capability that:
  - Lists previous search queries
  - Lists bookmarked metacards of interest
  - Provides access to a data locker that contains metacards managed by the owner
  - Enables the user to request collaboration with another metacard owner
  - Edit or builds metacards
  - Monitors usage experience and user feedback
- Comment on existing metacards
- The feedback mechanism provides asset usage experience contained within an M&S asset metacard (MSC-DMS format)
- The collaboration capability enables two or more people to work on and discuss development of a metacard
- External interfaces to exchange data with existing catalogs, repositories, and registries
Login and registration

An online support system enables users to submit trouble tickets and seek assistance on using the EMBR Portal

Search and discover capability:
- Indexed search of metacards using Lucene search engine
- A bookmark capability to mark metacards of interest
- A personal workbench capability that:
  - Lists previous search queries
  - Lists bookmarked metacards of interest
  - Provides access to a data locker that contains metacards managed by the owner
  - Enables the user to request collaboration with another metacard owner
  - Edit or builds metacards
  - Monitors usage experience and user feedback
- Comment on existing metacards
- The feedback mechanism provides asset usage experience contained within an M&S asset metacard (MSC-DMS format)
- The collaboration capability enables two or more people to work on and discuss development of a metacard
- External interfaces to exchange data with existing catalogs, repositories, and registries
EMBR Portal GUI and Functions: Collaboration

- Login and registration
- An online support system enables users to submit trouble tickets and seek assistance on using the EMBR Portal
- Search and discover capability:
  - Indexed search of metacards using Lucene search engine
- A bookmark capability to mark metacards of interest
- A personal workbench capability that:
  - Lists previous search queries
  - Lists bookmarked metacards of interest
  - Provides access to a data locker that contains metacards managed by the owner
  - Enables the user to request collaboration with another metacard owner
  - Edit or builds metacards
  - Monitors usage experience and user feedback
- Comment on existing metacards
- The feedback mechanism provides asset usage experience contained within an M&S asset metacard (MSC-DMS format)
- The collaboration capability enables two or more people to work on and discuss development of a metacard
- External interfaces to exchange data with existing catalogs, repositories, and registries
Login and registration
An online support system enables users to submit trouble tickets and seek assistance on using the EMBR Portal

Search and discover capability:
- Indexed search of metacards using Lucene search engine

A bookmark capability to mark metacards of interest

A personal workbench capability that:
- Lists previous search queries
- Lists bookmarked metacards of interest
- Provides access to a data locker that contains metacards managed by the owner
- Enables the user to request collaboration with another metacard owner
- Edit or builds metacards
- Monitors usage experience and user feedback

Comment on existing metacards

The feedback mechanism provides asset usage experience contained within an M&S asset metacard (MSC-DMS format)

- The collaboration capability enables two or more people to work on and discuss development of a metacard
- External interfaces to exchange data with existing catalogs, repositories, and registries
EMBR Portal GUI and Functions: Feedback

- Login and registration
- An online support system enables users to submit trouble tickets and seek assistance on using the EMBR Portal
- Search and discover capability:
  - Indexed search of metacards using Lucene search engine
- A bookmark capability to mark metacards of interest
- A personal workbench capability that:
  - Lists previous search queries
  - Lists bookmarked metacards of interest
  - Provides access to a data locker that contains metacards managed by the owner
  - Enables the user to request collaboration with another metacard owner
  - Edit or builds metacards
  - Monitors usage experience and user feedback
- Comment on existing metacards
- The feedback mechanism provides asset usage experience contained within an M&S asset metacard (MSC-DMS format)
- The collaboration capability enables two or more people to work on and discuss development of a metacard
- External interfaces to exchange data with existing catalogs, repositories, and registries
EMBR Portal GUI and Functions: Validation and Publication

- Login and registration
- An online support system enables users to submit trouble tickets and seek assistance on using the EMBR Portal
- Search and discover capability:
  - Indexed search of metacards using Lucene search engine
- A bookmark capability to mark metacards of interest
- A personal workbench capability that:
  - Lists previous search queries
  - Lists bookmarked metacards of interest
  - Provides access to a data locker that contains metacards managed by the owner
  - Enables the user to request collaboration with another metacard owner
  - Edit or builds metacards
  - Monitors usage experience and user feedback
- Comment on existing metacards
- The feedback mechanism provides asset usage experience contained within an M&S asset metacard (MSC-DMS format)
- The collaboration capability enables two or more people to work on and discuss development of a metacard
- External interfaces to exchange data with existing catalogs, repositories, and registries
What’s New in EMBR

- Updated site to use HTTPS
- Updated to MSC-DMS version 1.4 (Contact and Taxonomy Metacards)
- Incorporated numerous minor bug fixes and content changes
- Added configuration capability to allow custom site tailoring
Questions and Feedback
Value of the EMBR Portal

- Make it easy to build and share M&S asset metacards
  - No need to be an XML expert
  - Compliance with MSC-DMS standard automatic

- Help facilitate MSRRs and M&S Catalog to reflect more asset of interests

- All on the web / access controlled

- Can be configured for local organizations / networks
Metadata Flow: An Example

Localized, or Enterprise

Localized – Creation and Discovery starts at home
Enterprise – Distribution and Cataloging is on the web
The purpose of this activity is to determine the suitability of individual simulation systems to become member applications of the simulation environment. Metadata describing reusable and available member applications may be leveraged to discover candidate assets within existing M&S repositories.
DSEEP Step 3: Design Simulation Environment

- Select Member Applications 3.1
- Design Simulation Environment 3.2
- Design Member Applications 3.3
- Prepare Detailed Plan 3.4

- Objectives Statement 1.2
- Conceptual Model 2.2
- Member Application Metadata
- Scenario(s) 2.1
- Simulation Environment Requirements 2.3
- List of Selected (existing) Member Applications 4.3,5.2
- Simulation Environment Design 4.1,4.2,4.3,4.4
- Member Application Designs 4.3
- Detailed Planning Documents 4.1,4.2,4.3,4.4, 5.1,5.2,5.3,6.1, 7.1
- M&S Repositories
- Initial Planning Documents 1.3
- Augmented Planning Documents
- Simulation Environment Test Criteria 2.3

- List of Requirements Gaps

Vignette 2: Build Simulation Environment

4.1: Develop Simulation Data Exchange Model
4.2: Establish Simulation Environment Agreements
4.3: Implement Member Application Designs
4.4: Implement Simulation Environment Infrastructure

Reuse of an existing simulation data exchange model is the most expeditious approach, if one can be found within a repository.

This involves the...installation and configuration of supporting software on all computer systems.
EMBR Portal: Features

- Login and registration
- Search and discover capability:
  - Indexed search of metacards using Lucene search engine
- Comment on existing metacards
- A bookmark capability to mark metacards of interest
- A personal workbench capability that:
  - Lists previous search queries
  - Lists bookmarked metacards of interest
  - Provides access to a data locker that contains metacards managed by the individual
  - Enables the user to request collaboration with another metacard owner
  - Edit or builds metacards
  - Monitor s usage experience and user feedback
- The feedback mechanism provides asset usage experience contained within an M&S asset metacard (MSC-DMS format)
- The collaboration capability enables two or more people to work on and discuss development of a metacard
- An online support system enables users to submit trouble tickets and seek assistance on using the EMBR Portal
- External interfaces that enable the Portal to exchange data with existing catalogs, repositories, and registries
EMBR Portal GUI and Functions: Overview

- Login and registration
- An online support system enables users to submit trouble tickets and seek assistance on using the EMBR Portal
- Search and discover capability:
  - Indexed search of metacards using Lucene search engine
- A bookmark capability to mark metacards of interest
- A personal workbench capability that:
  - Lists previous search queries
  - Lists bookmarked metacards of interest
  - Provides access to a data locker that contains metacards managed by the owner
  - Enables the user to request collaboration with another metacard owner
  - Edit or builds metacards
  - Monitors usage experience and user feedback
- Comment on existing metacards
- The feedback mechanism provides asset usage experience contained within an M&S asset metacard (MSC-DMS format)
- The collaboration capability enables two or more people to work on and discuss development of a metacard
- External interfaces to exchange data with existing catalogs, repositories, and registries
EMBR Portal GUI and Functions: Search and Discovery

- Login and registration
- An online support system enables users to submit trouble tickets and seek assistance on using the EMBR Portal
- Search and discover capability:
  - Indexed search of metacards using Lucene search engine
- A bookmark capability to mark metacards of interest
- A personal workbench capability that:
  - Lists previous search queries
  - Lists bookmarked metacards of interest
  - Provides access to a data locker that contains metacards managed by the owner
  - Enables the user to request collaboration with another metacard owner
  - Edit or builds metacards
  - Monitors usage experience and user feedback
- Comment on existing metacards
- The feedback mechanism provides asset usage experience contained within an M&S asset metacard (MSC-DMS format)
- The collaboration capability enables two or more people to work on and discuss development of a metacard
- External interfaces to exchange data with existing catalogs, repositories, and registries
EMBR Portal GUI and Functions: Workbench

- Login and registration
- An online support system enables users to submit trouble tickets and seek assistance on using the EMBR Portal
- Search and discover capability:
  - Indexed search of metacards using Lucene search engine
- A bookmark capability to mark metacards of interest
- A personal workbench capability that:
  - Lists previous search queries
  - Lists bookmarked metacards of interest
  - Provides access to a data locker that contains metacards managed by the owner
  - Enables the user to request collaboration with another metacard owner
  - Edit or builds metacards
  - Monitors usage experience and user feedback
- Comment on existing metacards
- The feedback mechanism provides asset usage experience contained within an M&S asset metacard (MSC-DMS format)
- The collaboration capability enables two or more people to work on and discuss development of a metacard
- External interfaces to exchange data with existing catalogs, repositories, and registries
EMBR Portal GUI and Functions: Metacard Building and Editing

Login and registration
An online support system enables users to submit trouble tickets and seek assistance on using the EMBR Portal

Search and discover capability:
- Indexed search of metacards using Lucene search engine

A bookmark capability to mark metacards of interest

A personal workbench capability that:
- Lists previous search queries
- Lists bookmarked metacards of interest
- Provides access to a data locker that contains metacards managed by the owner
- Enables the user to request collaboration with another metacard owner
- Edit or builds metacards
- Monitors usage experience and user feedback

Comment on existing metacards
The feedback mechanism provides asset usage experience contained within an M&S asset metacard (MSC-DMS format)

- The collaboration capability enables two or more people to work on and discuss development of a metacard
- External interfaces to exchange data with existing catalogs, repositories, and registries
EMBR Portal GUI and Functions: Feedback

- Login and registration
- An online support system enables users to submit trouble tickets and seek assistance on using the EMBR Portal
- Search and discover capability:
  - Indexed search of metacards using Lucene search engine
- A bookmark capability to mark metacards of interest
- A personal workbench capability that:
  - Lists previous search queries
  - Lists bookmarked metacards of interest
  - Provides access to a data locker that contains metacards managed by the owner
  - Enables the user to request collaboration with another metacard owner
  - Edit or builds metacards
  - Monitors usage experience and user feedback
- Comment on existing metacards
- The feedback mechanism provides asset usage experience contained within an M&S asset metacard (MSC-DMS format)
- The collaboration capability enables two or more people to work on and discuss development of a metacard
- External interfaces to exchange data with existing catalogs, repositories, and registries
EMBR Portal GUI and Functions: Collaboration

<table>
<thead>
<tr>
<th>My Metacards</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Range Data Gateway</strong></td>
<td>You own/manage 10 metacards</td>
</tr>
<tr>
<td></td>
<td>The following managing capabilities are provided:</td>
</tr>
<tr>
<td></td>
<td><strong>View</strong> - clicking the link identified by</td>
</tr>
<tr>
<td></td>
<td>the metacard title will launch the</td>
</tr>
<tr>
<td></td>
<td>Metacard Viewer. The Metacard Viewer will</td>
</tr>
<tr>
<td></td>
<td>display the metacard information, and will</td>
</tr>
<tr>
<td></td>
<td>provide a set of additional functions that can</td>
</tr>
<tr>
<td></td>
<td>be performed on the metacard.</td>
</tr>
<tr>
<td></td>
<td><strong>Edit</strong> - opens the metacard details using the</td>
</tr>
<tr>
<td></td>
<td>Workbench Designer (Metacard Builder).</td>
</tr>
<tr>
<td></td>
<td><strong>Export</strong> - save a metacard to your computer or</td>
</tr>
<tr>
<td></td>
<td>mobile device. Choose the default XML format</td>
</tr>
<tr>
<td></td>
<td>(MSC-DMS), or another format.</td>
</tr>
<tr>
<td></td>
<td><strong>Collaborate</strong> - co-author and communicate</td>
</tr>
<tr>
<td></td>
<td>with others in the development or update of a</td>
</tr>
<tr>
<td></td>
<td>metacard.</td>
</tr>
<tr>
<td></td>
<td><strong>Validate</strong> - check to see if the metacard is</td>
</tr>
<tr>
<td></td>
<td>compliant and well-formed.</td>
</tr>
</tbody>
</table>

| **GMU Gateway**       |                                                  |
|                       | **View** - clicking the link identified by        |
|                       | the metacard title will launch the Metacard      |
|                       | Viewer. The Metacard Viewer will display the     |
|                       | metacard information, and will provide a set of  |
|                       | additional functions that can be performed on    |
|                       | the metacard.                                    |
|                       | **Edit** - opens the metacard details using the  |
|                       | Workbench Designer (Metacard Builder).           |
|                       | **Export** - save a metacard to your computer or |
|                       | mobile device. Choose the default XML format     |
|                       | (MSC-DMS), or another format.                    |
|                       | **Collaborate** - co-author and communicate      |
|                       | with others in the development or update of a    |
|                       | metacard.                                        |
|                       | **Validate** - check to see if the metacard is   |
|                       | compliant and well-formed.                      |

| **Network System Under Test Gateway** |                                                  |
|                                        | **View** - clicking the link identified by       |
|                                        | the metacard title will launch the Metacard      |
|                                        | Viewer. The Metacard Viewer will display the     |
|                                        | metacard information, and will provide a set of  |
|                                        | additional functions that can be performed on    |
|                                        | the metacard.                                    |
|                                        | **Edit** - opens the metacard details using the  |
|                                        | Workbench Designer (Metacard Builder).           |
|                                        | **Export** - save a metacard to your computer or |
|                                        | mobile device. Choose the default XML format     |
|                                        | (MSC-DMS), or another format.                    |
|                                        | **Collaborate** - co-author and communicate      |
|                                        | with others in the development or update of a    |
|                                        | metacard.                                        |
|                                        | **Validate** - check to see if the metacard is   |
|                                        | compliant and well-formed.                      |

| **VR-Exchange**      |                                                  |
|                     | **View** - clicking the link identified by        |
|                     | the metacard title will launch the Metacard      |
|                     | Viewer. The Metacard Viewer will display the     |
|                     | metacard information, and will provide a set of  |
|                     | additional functions that can be performed on    |
|                     | the metacard.                                    |
|                     | **Edit** - opens the metacard details using the  |
|                     | Workbench Designer (Metacard Builder).           |
|                     | **Export** - save a metacard to your computer or |
|                     | mobile device. Choose the default XML format     |
|                     | (MSC-DMS), or another format.                    |
|                     | **Collaborate** - co-author and communicate      |
|                     | with others in the development or update of a    |
|                     | metacard.                                        |
|                       | **Validate** - check to see if the metacard is   |
|                       | compliant and well-formed.                      |

| **DIS Filter**       |                                                  |
|                     | **View** - clicking the link identified by        |
|                     | the metacard title will launch the Metacard      |
|                     | Viewer. The Metacard Viewer will display the     |
|                     | metacard information, and will provide a set of  |
|                     | additional functions that can be performed on    |
|                     | the metacard.                                    |
|                     | **Edit** - opens the metacard details using the  |
|                     | Workbench Designer (Metacard Builder).           |
|                     | **Export** - save a metacard to your computer or |
|                     | mobile device. Choose the default XML format     |
|                     | (MSC-DMS), or another format.                    |
|                     | **Collaborate** - co-author and communicate      |
|                     | with others in the development or update of a    |
|                     | metacard.                                        |
|                     | **Validate** - check to see if the metacard is   |
|                     | compliant and well-formed.                      |

- Login and registration
- An online support system enables users to submit trouble tickets and seek assistance on using the EMBR Portal
- Search and discover capability:
  - Indexed search of metacards using Lucene search engine
- A bookmark capability to mark metacards of interest
- A personal workbench capability that:
  - Lists previous search queries
  - Lists bookmarked metacards of interest
  - Provides access to a data locker that contains metacards managed by the owner
  - Enables the user to request collaboration with another metacard owner
  - Edit or builds metacards
  - Monitors usage experience and user feedback
- Comment on existing metacards
- The feedback mechanism provides asset usage experience contained within an M&S asset metacard (MSC-DMS format)
  - The collaboration capability enables two or more people to work on and discuss development of a metacard
  - External interfaces to exchange data with existing catalogs, repositories, and registries
EMBR Portal
EMBR Portal Home Page (Cont.)

Recently Updated Metacards

EMBR Portal
- Deploy - Updated: 2011-04-02
- RDD First Response - Updated: 2011-04-02
- CJCAS-AlertStrike - Updated: 2011-04-02
- CJCAS-BattleDamageAssessment - Updated: 2011-04-02
- CJCAS-CommSent - Updated: 2011-04-02

Prev 1 of 41 Next

My Metacards & My Collaborations

DIS Filter - Updated: 2011-01-15
- Gateway Builder - Updated: 2011-01-15
- GMU Gateway - Updated: 2011-01-15
- VR-Exchange - Updated: 2011-01-15
- Making Your BOMs and FOM Modules Play Together - Updated: 2011-01-19

Prev 1 of 4 Next

Tracked Metacards

- Making Your BOMs and FOM Modules Play Together - Updated: 2011-01-19
- Pitch Recorder - Updated: 2011-01-31
- Standard for Link16 Simulations for navy sims - Updated: 2011-02-01
- Title for test metacard - Updated: 2011-02-08
- Call of Duty Black Ops - Updated: 2011-02-09

Network System Under Test Gateway
Number of Messages: 2

Comments Received
No Recent Comments
EMBR Portal: Metacard Search Utility (I)
EMBR Portal: Metacard Search Utility (II)
EMBR Portal Workbench (I)
EMBR Portal Workbench (II)

My Metacards

Range Data Gateway
- Collaborators: 0 | Valid: Yes | Submitted: No

GMU Gateway
- Collaborators: 0 | Valid: No | Submitted: No

Network System Under Test Gateway
- Collaborators: 1 | Valid: Yes | Submitted: No

VR-Exchange
- Collaborators: 0 | Valid: No | Submitted: No

DIS Filter
- Collaborators: 1 | Valid: No | Submitted: No

Ballistic missile defense system modeler

Information
You own/manage 10 metacards
The following managing capabilities are provided:

View - clicking the link identified by the metacard title will launch the Metacard Viewer. The Metacard Viewer will display the metacard information, and will provide a set of additional functions that can be performed on the metacard.

Edit - opens the metacard details using the Workbench Designer (Metacard Builder).

Export - save a metacard to your computer or mobile device. Choose the default XML format (MSC-DMS), or another format.

Collaborate - co-author and communicate with others in the development or update of a metacard.

Validate - check to see if the metacard is compliant and well-formed.
EMBR Portal Metacard Builder
EMBR Portal Metacard View

Metacard View

Metacard Summary
Title: VR-Exchange
Type: tool
Description: Provide gateway between various architectures / protocols

Dates:
lastVerified-2010-05-01

Version: 1
Rights:

Releasability: A: Unlimited distribution
Security Classification:

Associations:
POCs:
MaK Technologies

Keywords:
value: HLA taxonomy: Architectures
value: DIS taxonomy: Architectures
value: TENA taxonomy: Architectures

Usages:
purpose: HLA, DIS, TENA, and others (via an API)
adplicationDomain:

limitations:
history: ---

Media:
Glyph:
Taxonomies Cited:
EMBR Portal Collaboration

My Collaborations

Gateway Builder
- Collaborators: 1 | Valid: Yes | Submitted: No

Standard for Link16 Simulations for navy sims
- Collaborators: 1 | Valid: No | Submitted: No

Making Your BOMs and FOM Modules Play Together
- Collaborators: 4 | Valid: No | Submitted: No

Pitch Recorder
- Collaborators: 1 | Valid: Yes | Submitted: No

ModIOS logger/player
- Collaborators: 1 | Valid: Yes | Submitted: No

Title for test metacard

Information
You are collaborating on 7 metacards

The following managing capabilities are provided:

View - clicking the link identified by the metacard title will launch the Metacard Viewer. The Metacard Viewer will display the metacard Information, and will also provide a set of additional functions that can be performed on the metacard.

Edit - opens the metacard details using the Workbench Designer (Metacard Builder).

Export - save a metacard to your computer or mobile device. Choose the default XML format (MSC-DMS), or another format.

Collaborate - co-author and communicate with others in the development or update of a metacard.

Validate - check to see if the metacard is compliant and well-formed.
EMBR Portal Feedback

Collaboration Requests
No Recent Requests

Collaboration Messages
Network System Under Test Gateway
Number of Messages: 2

Feedback Received
Range Data Gateway - 2011-01-17
Feedback Description: I have not used this adjunct tool, but I have heard valuable comments from the TENA community.
Call of Duty Black Ops - 2011-01-17
Great FPS, with amazing graphics.
Call of Duty Black Ops - 2011-01-17
Great FPS, with amazing graphics.
Call of Duty Black Ops - 2011-01-17
Great FPS, with amazing graphics.

Comments Received
No Recent Comments
MSC-DMS 1.4
What Latest Version Offers

• Support for documenting and validating
  – Resource Metacards
  – Contact Metacards
  – Taxonomy Metacards (i.e., glossary of terms)
  – Multicards

• Improved organization and readability

• Improved alignment with DDMS

• Includes relaxed schema components
  – To support partially built metacards
The structures identified above reflect version MSC-DMS version 1.4
A **multicard** allows multiple metacards to be aggregated into one file set.

The structures identified above reflect version MSC-DMS version 1.4