EMMM™ Information Model Workshop

- May 13, 2014 Tuesday 14:00-15:30
  - Introductions & background to the EMMM Framework 14:00-14:15
  - Alignment between components of the EM Framework 14:15-14:30
  - Scope of work for the Information model project 14:30-15:15
    - Review of the product description
    - Engaging communities, members and the sector?
    - Contributions from Members
    - Meeting schedule and contacts
  - Alignment & feedback to other standards and work groups 15:15-15:30
    - Business Capability definition in TOGAF and ArchiMate
  - Next steps and next meetings
The Open Group EMMM Forum Roadmap

<table>
<thead>
<tr>
<th>Item</th>
<th>London</th>
<th>San Francisco</th>
<th>Amsterdam</th>
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<tr>
<td>4Q2013</td>
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<td>2Q2014</td>
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Projects

Exploration and Mining reference framework

Business Process model

Business Capability map

Information model

Applications map

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<thead>
<tr>
<th>Publications</th>
<th>Type</th>
<th>Date</th>
</tr>
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<tbody>
<tr>
<td>Exploration and Mining Business reference model</td>
<td>Std</td>
<td>2013</td>
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<tr>
<td>Exploration and Mining Business Capability Reference map</td>
<td>Std</td>
<td>2014</td>
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Exploration, Mining, Metals and Minerals
Meta-model Requirement

Need to resolve how business capability/Application Function will be mapped.

Suggestion:
- Use only one connected between Capability & Application to maintain referential integrity.
- Map at higher level initially given work required to define/maintain lower level mapping.
- Allow for mapping at L3

Application Function is an implementation concept of a lower level business capability.

Suggestion:
- The L3 Business Capability is a generalization of the Application Function

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What is the Information model?

- Describes business information for the exploration and mining industry at a contextual and conceptual level
- Describes what things are important to the enterprise
  - Describe the Information components and relate these to categories or domains of interest
  - How they related possibly for a later stage of the model
- Prioritized the “Core” value stream
Definitions

**Information:** Things the business is interested in +

The business knows something that it needs to have stored, communicated or processed. This is information. As this is put into a form where it is suitable for storing, communicating and processing (for example, it is input into a computer) it becomes data.

**Data:** *“a re- interpretable representation of information in a formalised manner suitable for communication, interpretation or processing.”*

*From ISO/IEC 2382-1:1993 Information Technology - Vocabulary - Part 1: Fundamental Terms + Keith Gordon, Information or Data?*
Information and data

Figure 1: The relationship between information and data

Reference: DAMAUK Newsletter 2008, Keith Gordon, Information or Data?
Information reference model : Purpose

Purpose

- To provide a common understanding of the information elements across exploration and mining
- To elaborate and collaborate with the various tiers of information stakeholders about the information that is pertinent to the exploration and mining organisation
- To define standardized information terms for the exploration and mining industry
- To support the development of an application capability reference model
  - Understanding relationship between potential application capability and information element
- To support the business process and business capability models (as key products within the EM Reference Framework)
- To support efforts to identify the key business success measures applicable to the exploration and mining value chain
- To enable The Open Group’s vision of Boundaryless Information Flow™.
Information Model: Description

- Artefacts/ graphic(s) that defines the conceptual EM Information model detailing mining-generic information
  - Conceptual information model
  - Including components, categories/ groups/ types

- Supporting document that describes the standardized terms used in the model

- Possible additional supporting documentation includes:
  - information flows
  - complementary terms/ synonyms
  - Supporting document showing alignment to JORC and other mining industry standards
Information model: Approach

Approach

- Collaborative development across EMMM Forum members
- Parallel review of products already delivered (Business Process, Capabilities) for terms, synonyms etc.
- Accelerate the approach to make industry reference material available to participants
- Work-in-progress sent out following workshop
- Feedback is provided before the meeting for discussion in the up-coming meeting
- Shared workspace to enable collaboration and contribution
- Populate standard templates where availability and applicable
- Sharing of Best practice examples
- Use own internal mechanism to review and validate with stakeholders and then provide the input to the workgroup
Information Model Products

- **Quality Criteria**
  - Model is concise, typically one of two pages
  - Consistent level of detail
  - The model is complete in that it defines all the information element/components of the core value chain
  - Supports and is consistent with the Business Capability and Business Process framework deliverables from the EMMM forum
  - Terms used consistently across all the models of the framework
  - Useable for all sizes and types of exploration & mining operations
  - JORC (and other exploration and mining industry standards) aligned

- **Performance Measures**
  - Signed off by members
  - Useful, and aligns to Business Capability and Business Process frameworks
  - Accepted as basis for an Open Group standard
  - Demonstrate how it is used in an iteration of the TOGAF ADM.