

CIMI Reference Model UPDATE 1.0.0-dstu

Arlington F2F jun-2013
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<https://groups.google.com/d/forum/cimi-modelling-taskforce> : general discussions

<https://github.com/opencimi/rm> : RM artifacts

<https://github.com/opencimi/rm/issues> : RM issue tracker

Agenda

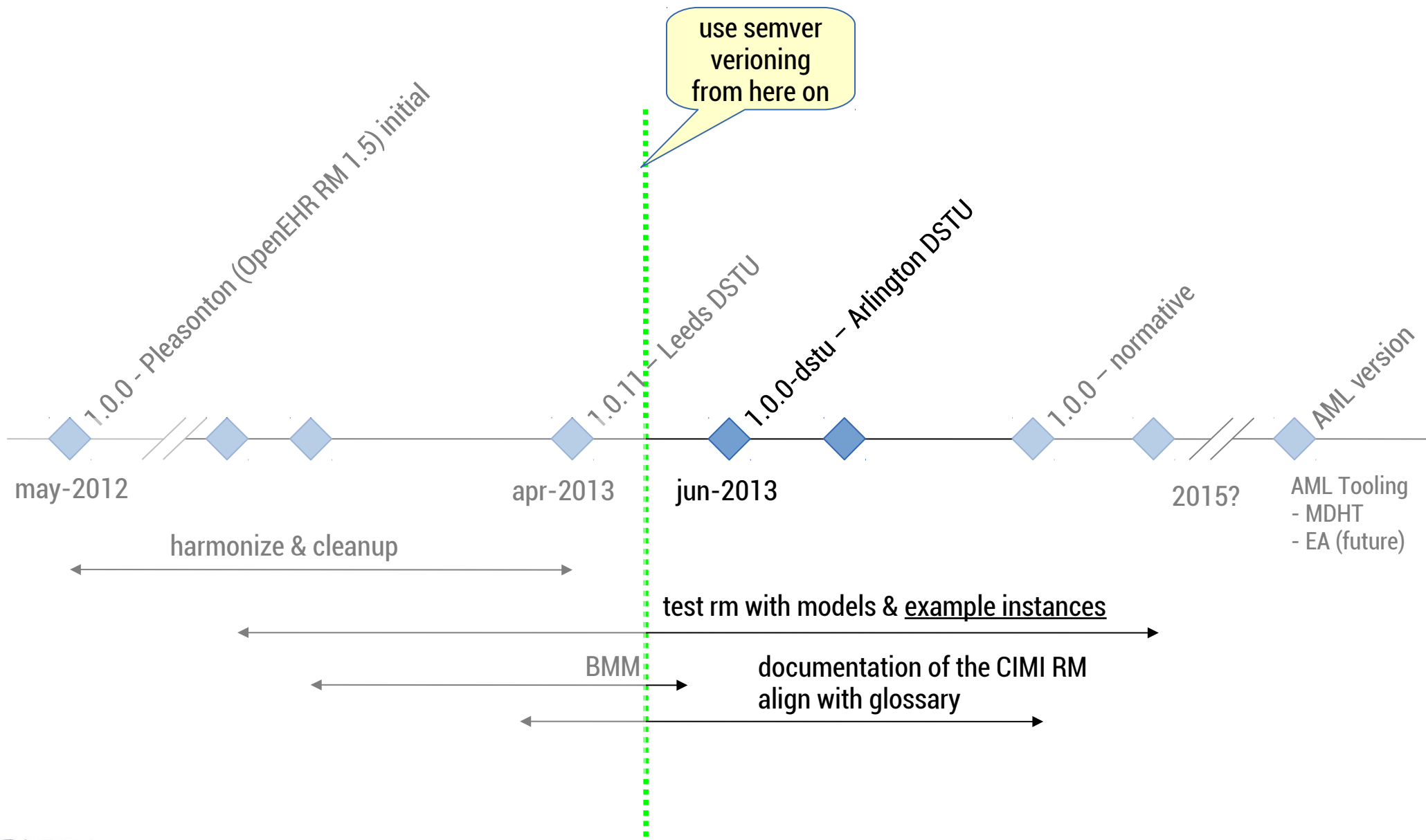
- History & Timeline
- The current CIMI RM 1.0.0-dstu
 - Changes since apr-2013
- RM Artifact Issue Tracker
- Current Deliverables
- XSD's for XML Example Instance
- Next steps

History & Timeline

History

- OpenEHR RM 1.5
- **1.0.0 Pleasanton May 2012 - initial**
- 1.0.5 Rockville Sep 2012 - draft
- 1.0.8 Groningen Dec 2012 - draft
- 1.0.9 Scottsdale Jan 2013 – draft
- 1.0.11 London Apr 2013 – DSTU!
- 1.0.0-dstu(.#) Arlington Jun 2013
- 1.0.0-dstu (without the .#)

Timeline



The current CIMI RM

Summary of Changes

- Added LOCATABLE.uid
 - Mainly for difference between archetype_node_id and runtime/example instance id's.
- LINK.details added

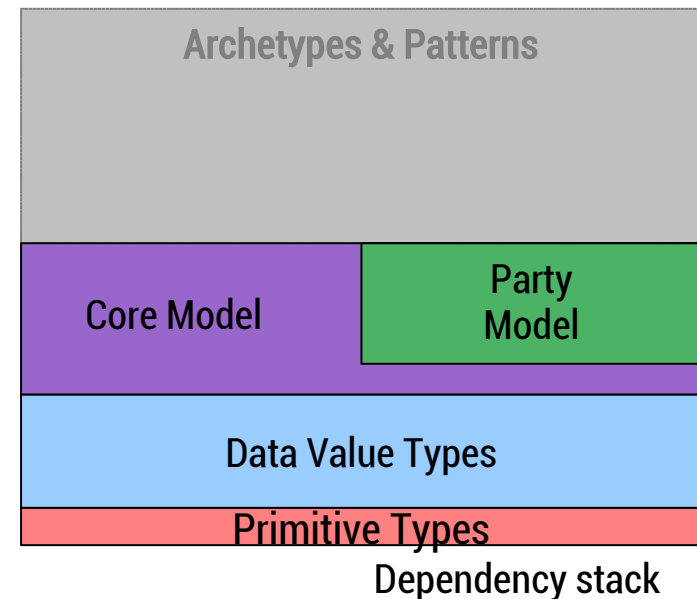
Summary of Changes

- CIMI RM Artifacts now at GitHub
- CIMI RM Issues now in GitHub issue tracker
- Version number using semver
 - apr-2013 : 1.0.12 DSTU is now 1.0.0-dstu.5
 - 1.0.0-dstu is the final dstu version, without changes this will become the 1.0.0 version
 - changes after that will become 1.0.1-draft/dstu(.#) and eventually it will become 1.0.1
 - etc
- Generated XSD's for Example Instances in XML

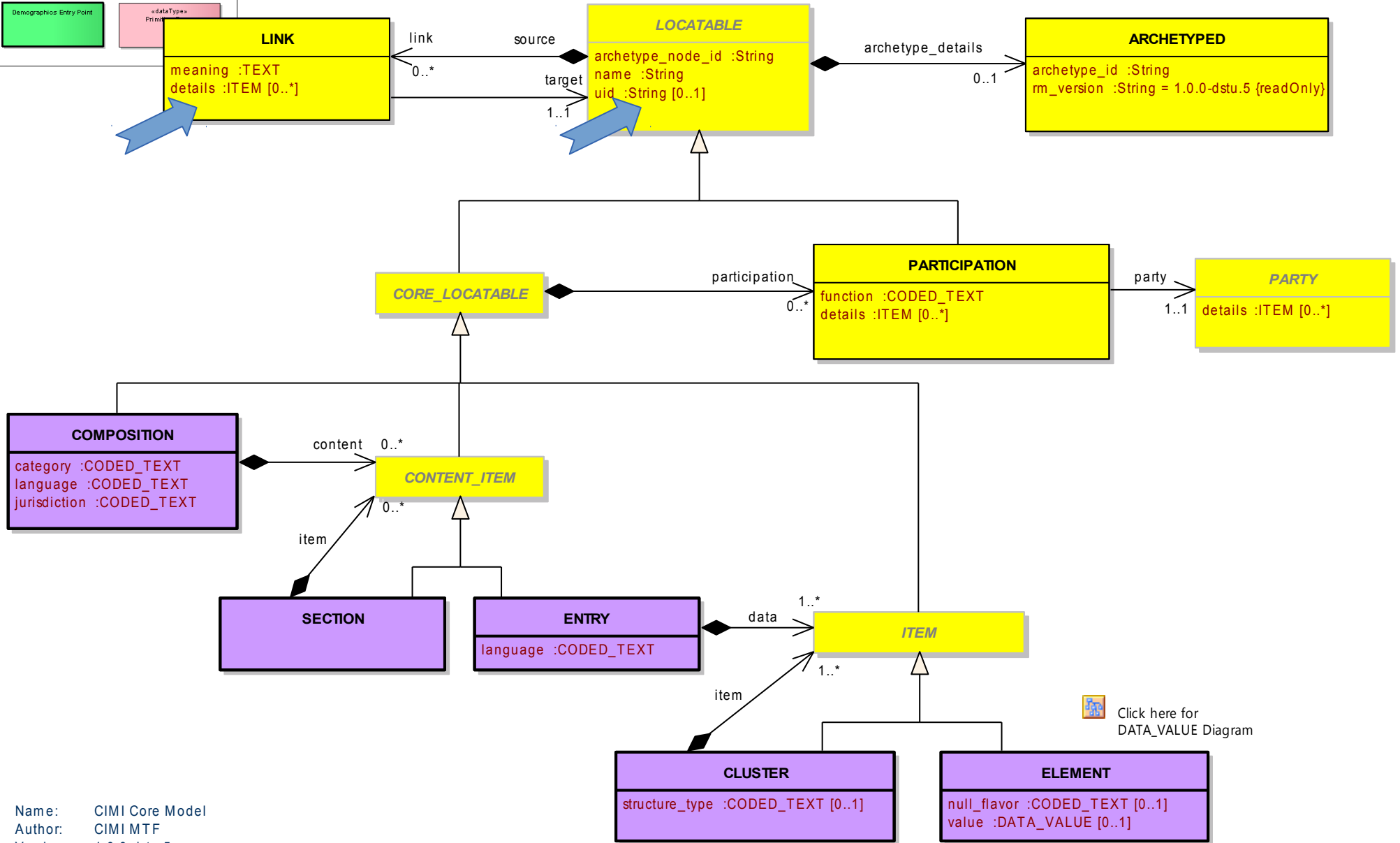
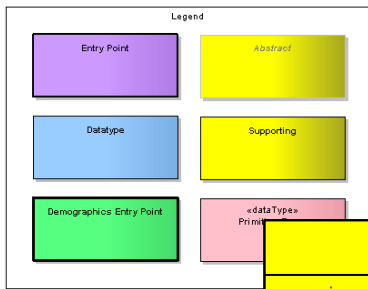
The Parts of the CIMI RM


- The full CIMI Reference Model consists of
 - Core Model
 - Party Model
 - Data Value Types
 - Primitive Types

Note that **terminology / meaning binding** is not in the RM. Each LOCATABLE element has an archetype_node_id (+ tagged values in UML) and (CODED_)TEXT datatype attributes.



Core Model

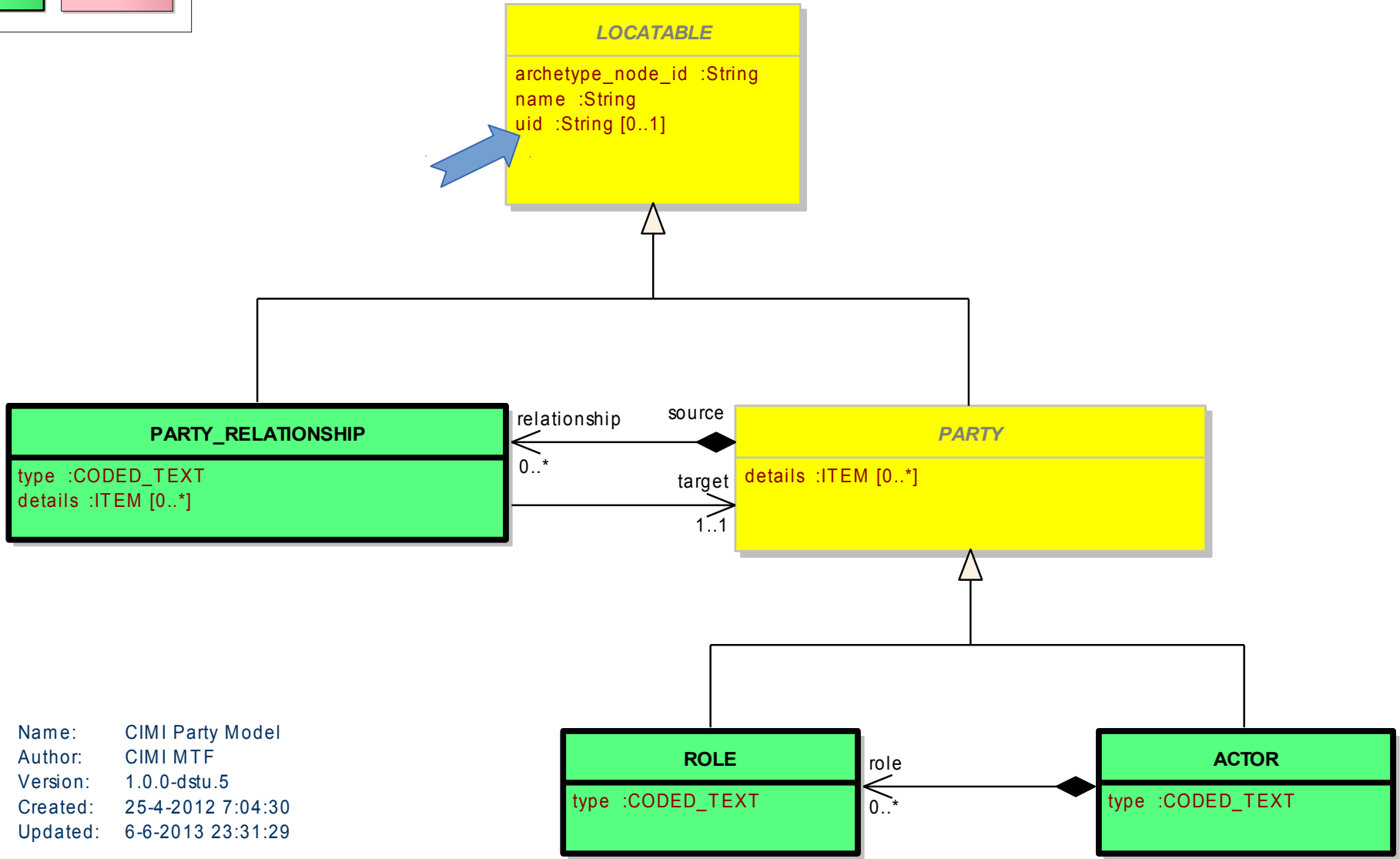
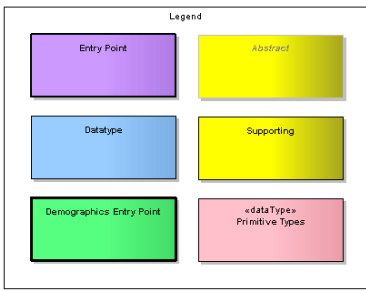


 [Click here for DATA_VALUE Diagram](#)

Name: CIMI Core Model
 Author: CIMI MTF
 Version: 1.0.0-dstu.5
 Created: 30-11-2012 20:32:29
 Updated: 6-6-2013 23:31:13

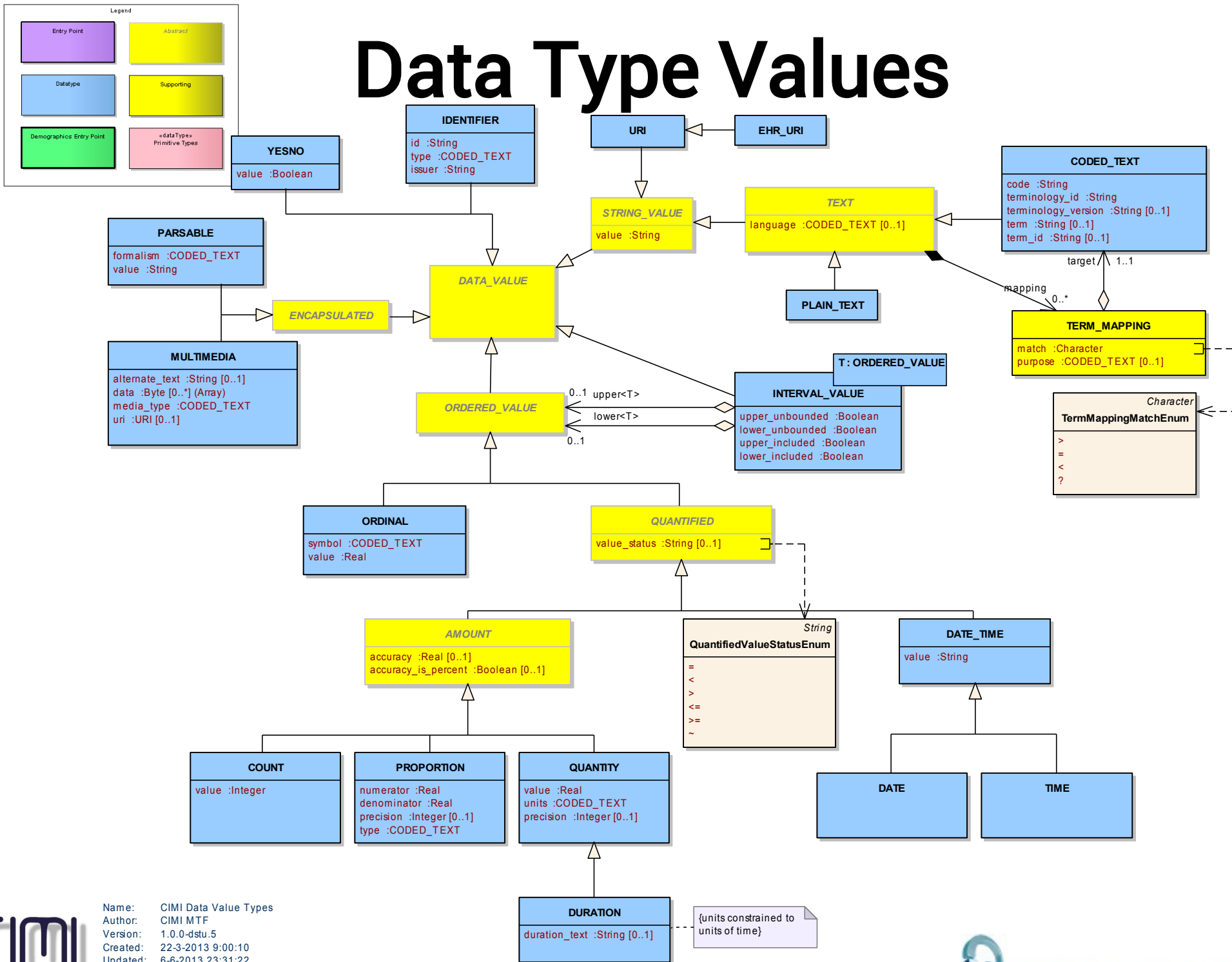


Party Model



Name: CIMI Party Model
 Author: CIMI MTF
 Version: 1.0.0-dstu.5
 Created: 25-4-2012 7:04:30
 Updated: 6-6-2013 23:31:29

Data Type Values



Name: CIMI Data Value Types
 Author: CIMI MTF
 Version: 1.0.0-dstu.5
 Created: 22-3-2013 9:00:10
 Updated: 6-6-2013 23:31:22

RM Artifact Issue Tracker

RM Artifact Issue tracker

- <https://github.com/opencimi/rm/issues>

PUBLIC **opencimi / rm** Pull Request Unwatch Star 0 Fork 1

Code Network Pull Requests 0 **Issues 3** Wiki Graphs Settings

Browse Issues Milestones [New Issue](#)

Everyone's Issues **3** 3 Open 3 Closed Sort: Newest

Close Label Assignee Milestone

- Use namespace for the XSD's?** **question** **XSD** #5
Opened by mvdzel 20 days ago
- Generic_parameters property of P_BMM_GENERIC_PROPERTY should be a list** **BMM** #4
Opened by mvdzel 20 days ago
- Cardinality property of Single attributes** **BMM** #3
Opened by mvdzel 20 days ago 1 comment

No milestone selected

Labels

- BMM** 2
- XSD** 1
- question** 1
- EAP** 0
- XMI** 0
- bug** 0

Keyboard shortcuts available

Please use the labels for the issues.

Current Deliverables

In this repository you will find the different versions and for each version different representations of the CIMI RM and work files. For each version there will be a folder with that version, using semver.org versioning rules (e.g. 1.0.0-dstu.3).

Folders

| | |
|------------|---|
| /initial | This folder contains work files for the initial conversion of the openEHR 200b BoUML XMI file to a EA XMI file. |
| /[version] | Will contain the EAP, BMM, XMI, XSD, RDF representation of of the CIMI RM |

Files

| | |
|-------------|---|
| CIMI RM.eap | The Enterprise Architect project file containing the source-of-truth regarding the CIMI Reference Model. The other artifacts are generated from here. |
| XSD | XML Schema for creating example instances of the CIMI RM. Generated by EA. |
| BMM | Basic Meta-Model file used by the OpenEHR Archetype Workbench and LinkEHR. |
| RTF | Documentation generated from the EA UML model. |
| XMI | Currently this is an export of the CIMI RM by EA in XMI2.1/UML2.2. We want the "sanitized" version that is compatible with MDHT. |
| RDF/OWL | Available at mayo? |

License Text?

- LICENSE.txt file where?

– Example from: <http://www.clinicalelement.com/cimi-browser/>

<https://github.com/opencimi/rm/blob/master/1.0.0-dstu/LICENSE.txt>

XML Example Instances

XML Example Instances

- What could instance data look like
- Generated XML Schema from UML model using EA
- Term binding using other namespace?
- Examples
 - Basic
 - w/ Terminology binding proposal

Instance Example

What should the namespace be?
<http://opencimi.org/rm>

CIMI RM RFC
CODED_TEXT@value
rename to displayText?
The @value is means
for displaying

```
<ENTRY xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="cimi-rm.xsd">
  <archetype_node_id>at0001</archetype_node_id>
  <name>SystolicBP Measure</name>
  <uid>{3577F211-1D8C-4ce4-8579-D29DC083A96D}</uid>
  <language>
    <displayText>English</displayText>
    <code>en</code>
    <terminology_id>ISO639-1</terminology_id>
  </language>
  <data xsi:type="ELEMENT">
    <archetype_node_id>at0002</archetype_node_id>
    <name>SystolicBP</name>
    <value xsi:type="QUANTITY">
      <value>138</value>
      <units>
        <displayText>mmHg</displayText>
        <code>mm [Hg] </code>
        <terminology_id>UCUM</terminology_id>
      </units>
    </value>
  </data>
</ENTRY>
```

Example Term Binding

```
<ENTRY xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://opencimi.org/rm"
  xmlns:tb="http://opencimi.org/term-binding">
  <archetype_node_id>at0001</archetype_node_id>
  <tb:meaning>sctid:246445000</tb:meaning>
  <name>SystolicBP Measure</name>
  <uid>{3577F211-1D8C-4ce4-8579-D29DC083A96D}</uid>
  <language>
    <value>English</value>
    <code>en</code>
    <terminology_id>ISO639-1</terminology_id>
  </language>
  <data xsi:type="ELEMENT">
    <archetype_node_id>at0002</archetype_node_id>
    <tb:meaning>sctid:271649006</tb:meaning>
    <name>SystolicBP</name>
    <value xsi:type="QUANTITY">
      <value>138</value>
      <units>
        <value>mmHg</value>
        <code>mm[Hg]</code>
        <terminology_id>UCUM</terminology_id>
      </units>
    </value>
  </data>
</ENTRY>
```

Next steps

Next Steps

- [HIGH] Complete Model Documentation & align w/ Glossary
- [HIGH] Further implement RM in Tooling
 - Sanitized XMI from EA w/ Dave
- [HIGH?] CIMI RM LICENSE.txt @Github??
- [LOW] Write guidance on use
- [ongoing] Identity RM issues and RFCs @Github based on the Example Instances and current Mindmaps