ADL Designer
CIMI Archetype Designer
Logical Modeling Toolkit (LOKI)

ADL Designer

- OpenEHR - www.openehr.org

- Marand - www.marand.com

- https://github.com/openEHR/adl-designer

CIMI Archetype Designer

Please sign in

Sign in with GitHub

Specialize   New   Load   Save

Description   Definition   Terminology

Load archetype   ×

Archetype Id   CIMI-CORE-ACTOR.actor.v1   ▾

Close   Load

Description   **Definition**   **Terminology**   **Display**

Language   en ⇕   Tree | Mindmap

? Actor
  details
    Identifier
      item
        ID Value
    Name
    Address
    Contact
    Party type
    Language
    Description
    Actor type
  relationship
    Relationship
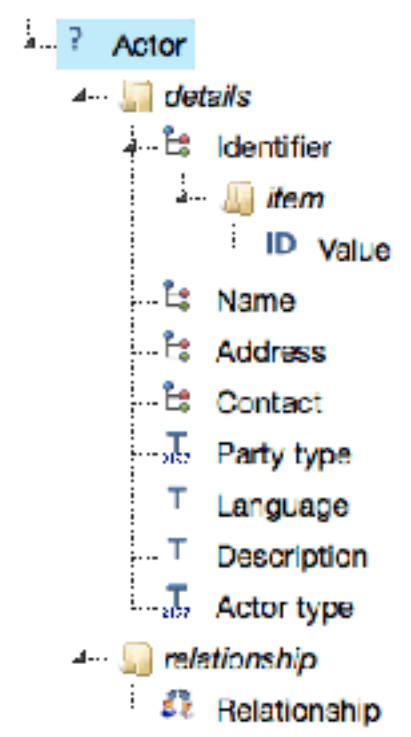
⊕ Add   ⊗ Remove

Constraints   **Annotations**

Node Id	Id1.1
Path	
Occurrences	0..1

Specialized   Save

Description | Definition | Terminology | Display

Authoring | Language | Details

Original Author

Key	Value	+
name	Patrick Langford	−
organisation	Intermountain Healthcare	−
email	patrick@neuronsong.com	−
date	10/06/2014	−

Contributors

Linda Bird <lbi@ihtsdo.org>
Joey Coyle <joey@xcoyle.com>
Stan Huff <Stan.Huff@imail.org>
Harold Solbrig <Solbrig.Harold@mayo.edu>
Thomas Beale <thomas.beale@oceaninformatics.com>

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✎

| Description | Definition | Terminology | Display |

| Nodes | Terms | Bindings | Value Sets | External Terminologies |

Code	Text	Description
id1.1	Actor	-
id0.2	Language	-
id0.3	Description	-
id0.4	Actor type	-
id1	Party	-
id2	Identifier	-
id3	Value	-
id4	Name	-
id5	Address	-
id6	Contact	-
id7	Party type	-
id8	Relationship	-

Description   **Definition**   **Terminology**   **Display**

Differential ADL   **Flat ADL**

```
archetype (adl_version=1.5.1; rm_release=2.0.2; generated)
    CIMI-CORE-ACTOR.actor.v1

specialize
    CIMI-CORE-PARTY.party.v1

language
    original_language = <[ISO_639-1::en]>

description
    copyright = <"Copyright (c) Clinical Information Modelling Initiative <http://opencimi.org>">
    details = <
        ["en"] = <
            keywords = <"actor">
            language = <[ISO_639-1::en]>
            purpose = <"Archetype for CIMI 'actor' concept">
            use = <"Use for actor.">
        >
    >
    lifecycle_state = <"unmanaged">
    original_author = <
        ["name"] = <"Patrick Langford">
        ["organisation"] = <"Intermountain Healthcare">
        ["email"] = <"patrick@neuronsong.com">
        ["date"] = <"10/06/2014">
    >
```
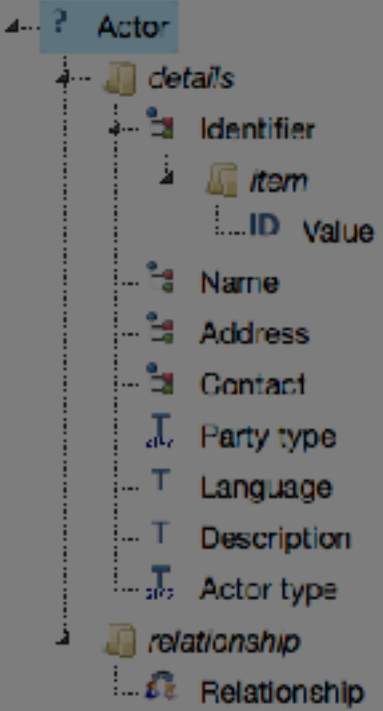
Specialize   New   Load   Save

Description | Definition | Terminology | D

Specialize archetype   ✕

Parent Archetype Id

Specialized Archetype

Language   en

- ? Actor
  - details
    - Identifier
      - item
        - ID Value
    - Name
    - Address
    - Contact
    - Party type
    - Language
    - Description
    - Actor type
  - relationship
    - Relationship

notations

id1.1

0..1

Save

✓ CIMI-CORE-ACTOR.actor.v1
CIMI-CORE-ACTOR.organization.v1
CIMI-CORE-ACTOR.person.v2
CIMI-CORE-ITEM_GROUP.action.v1
CIMI-CORE-ITEM_GROUP.action_set.v1
CIMI-CORE-ITEM_GROUP.actor_name.v1
CIMI-CORE-ITEM_GROUP.address.v2
CIMI-CORE-ITEM_GROUP.address_detailed.v2
CIMI-CORE-ITEM_GROUP.address_line.v1
CIMI-CORE-ITEM_GROUP.anatomical_location.v2
CIMI-CORE-ITEM_GROUP.approve_action.v1
CIMI-CORE-ITEM_GROUP.author_action.v1
CIMI-CORE-ITEM_GROUP.cancel_action.v1
CIMI-CORE-ITEM_GROUP.clinical_activity.v1
CIMI-CORE-ITEM_GROUP.clinical_document.v2
CIMI-CORE-ITEM_GROUP.clinical_report_header.v1
CIMI-CORE-ITEM_GROUP.clinical_statement.v1
CIMI-CORE-ITEM_GROUP.cluster.v1
CIMI-CORE-ITEM_GROUP.collect_action.v1
CIMI-CORE-ITEM_GROUP.compound_clinical_statement.v1
CIMI-CORE-ITEM_GROUP.custodian_action.v1
CIMI-CORE-ITEM_GROUP.electronic_contact.v1
CIMI-CORE-ITEM_GROUP.encounter_action.v1
CIMI-CORE-ITEM_GROUP.heart_rate.v1
CIMI-CORE-ITEM_GROUP.indivisible_clinical_statement.v1
CIMI-CORE-ITEM_GROUP.interpret_action.v1
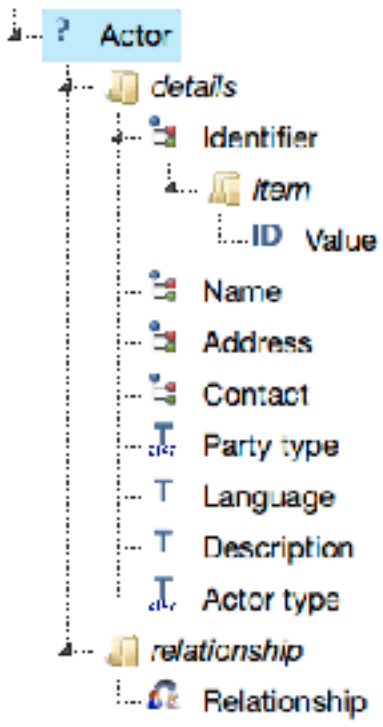CIMI-CORE-ITEM_GROUP.issue_action.v1
CIMI-CORE-ITEM_GROUP.laboratory_panel.v1

neuronsong/cimi-models

Description   Definition   Terminology   Display

Language   en

Tree   Mindmap

Constraints   Annotations

? Actor
- details
  - Identifier
    - item
      - ID Value
  - Name
  - Address
  - Contact
  - Party type
  - Language
  - Description
  - Actor type
- relationship
  - Relationship

Node Id	id1.1.1
Path	
Occurrences	0..1

Add   Remove

Specialized   Save

Specialize   New   Load   Save

Description   **Definition**   Terminology   D

Annotations

Language   en

? Actor
 └─ details
     ├─ Identifier
     │   └─ item
     │   └─ ID   Value
     ├─ Name
     ├─ Address
     ├─ Contact
     ├─ Party type
     ├─ Language
     ├─ Description
     └─ Actor type
 └─ relationship
     └─ Relationship

id1.1.1

nces   0..1

Create new archetype   ✕

Archetype Id   CIMI-CORE-ACTOR..v1.0.0

Rm Type   ACTOR

Concept

Version   1.0.0

Original Language   en

Close   Create

Specialized

● Add   ● Remove

Save

Specialize   New   Load   Save

Description | **Definition** | Terminology | Display

Language   en   ⬍   Tree   Mindmap

⋯ ? myactor

1..1

Constraints | Annotations

Node Id	id1
Path	
Occurrences	1..1

Specialized   Save

⊕ Add   ⊗ Remove

Current CIMI Models

- miniCIMI

- Relied on a small, stable, reference model (BMM)

- Reference model was not expected to change… or very rarely… no churn expected in the BMM file

- Current Archetype Designers built around this

New CIMI Models

- Current "Reference" archetypes subsumed by the new BMM

- BMM files expected to change and grow

- Currently no support for BMM files in the ADL Designer or the CIMI Archetype Editor

Logical Modeling Toolkit (LOKI)

- Create high-level logical models

- Platform agnostic

- Output to CEML, BMM/ADL, UML, XML, FHIR Profile…

Logical Modeling

- High-level concept modeling

- Constraint based modeling

- Tightly bound to terminology

- No direct intermediate format other than output formats (users will never edit an LM text file)