

Towards iStarML 2.0: Closing Gaps from Evolved Requirements

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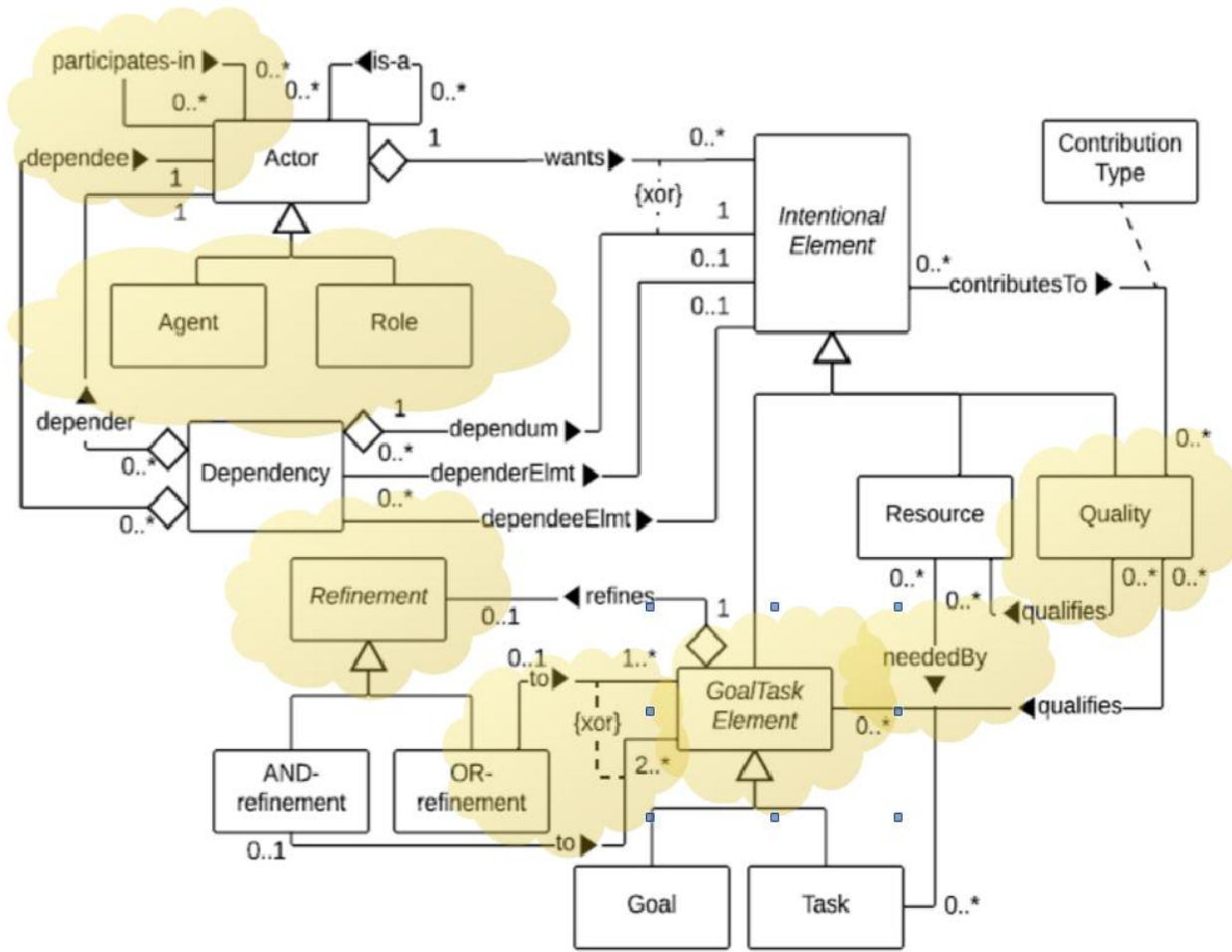
Outline

- Motivation
- iStarML 2.0
- Conclusions and Future Work

Motivation

- iStar 2.0 proposal
 - Same core concepts: actor, dependency, IE, IELink
 - Different kind of elements (e.g. Qualities, Refinement,...)
- Some i* modeling requirements

iStar 2.0 Evolution Areas



i* Modeling Requirements

- Scalability
- Model Analysis
- Traceability

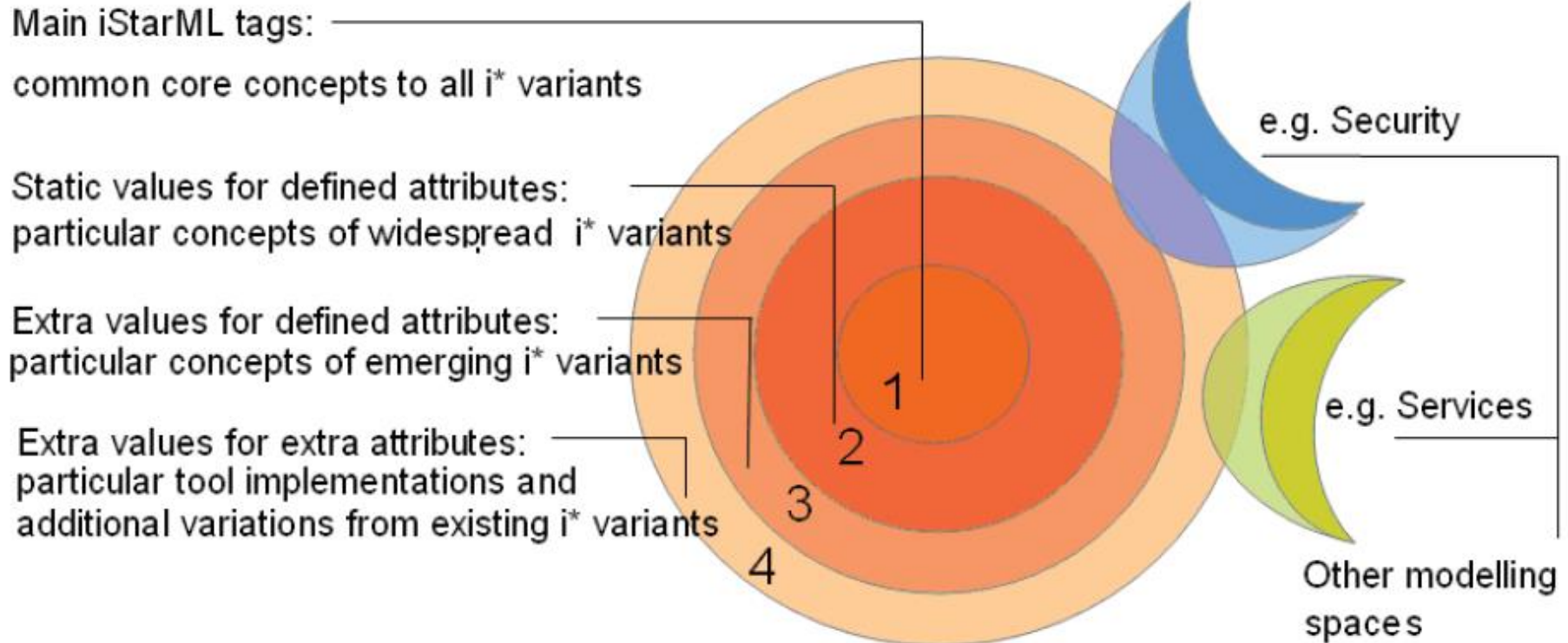
iSTAR 2.0 REQUIREMENTS



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iStar'16, September 13rd, 2016, Beijing, China

iStarML Concentric Structure



iStarML 2.0 – Ring 1

- Common iStar core concepts
- iStarML tags: No changes
 - <actor>
 - <intentionalElement>

iStarML 2.0 – Ring 2

- Attribute type for iStar <IELink>
- iStarML contains all the possible values

iStarML	iStarML 2.0
<actor type={agent, role, position , *}>	type={agent, role, *}
<ielement type={goal, softgoal , task, resource, *}>	type={goal, task, resource, quality, *}

iStarML 2.0 – Ring 3

iStarML	iStarML 2.0
<pre><ielementLink type={decomposition, means-end, contribution}</pre>	<pre>type={decomposition, means-end, contribution, refinement, qualification, neededby}</pre>
<pre><actorLink type = {is_part_of, is_a, instance_of, plays, covers, occupies, <string> }></pre>	<pre><actorLink type= {is_part_of, is_a, instance_of, plays, covers, occupies, participates-in, <string> }</pre>

I* REQUIREMENTS



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Unfinished Models

- No depender allowed

iStarML	iStarML 2.0
<dependency> Definition:	
dependerTag {dependerTag} {dependeeTag}	{dependerTag dependeeTag}

Scalability

- Supporting hidden elements

iStarML	iStarML 2.0
<boundary>	New attribute: [style={"open"} "closed"]]
<ielement>	New attribute: [style={"open"} "closed"]]
<actor>	New attribute: [style={"open"} "closed"]]

Analysis

- Metrics over the core concepts (actor, intentional element)

iStarML	iStarML 2.0
<actor> and <ielement>	New contained tag <metric> Metric attributes: name=<name> value=<value> [type=<metricType>]

Thank you!

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