Submissions:TimeIndexedPartOf

From Odp

If you are a member of quality committee please visit the

evaluation section (http://ontologydesignpatterns.org/wiki/index.php?title=Submissions:TimeIndexedPa

If you are author of this proposal or you want to contribute to this pattern's review, you can:



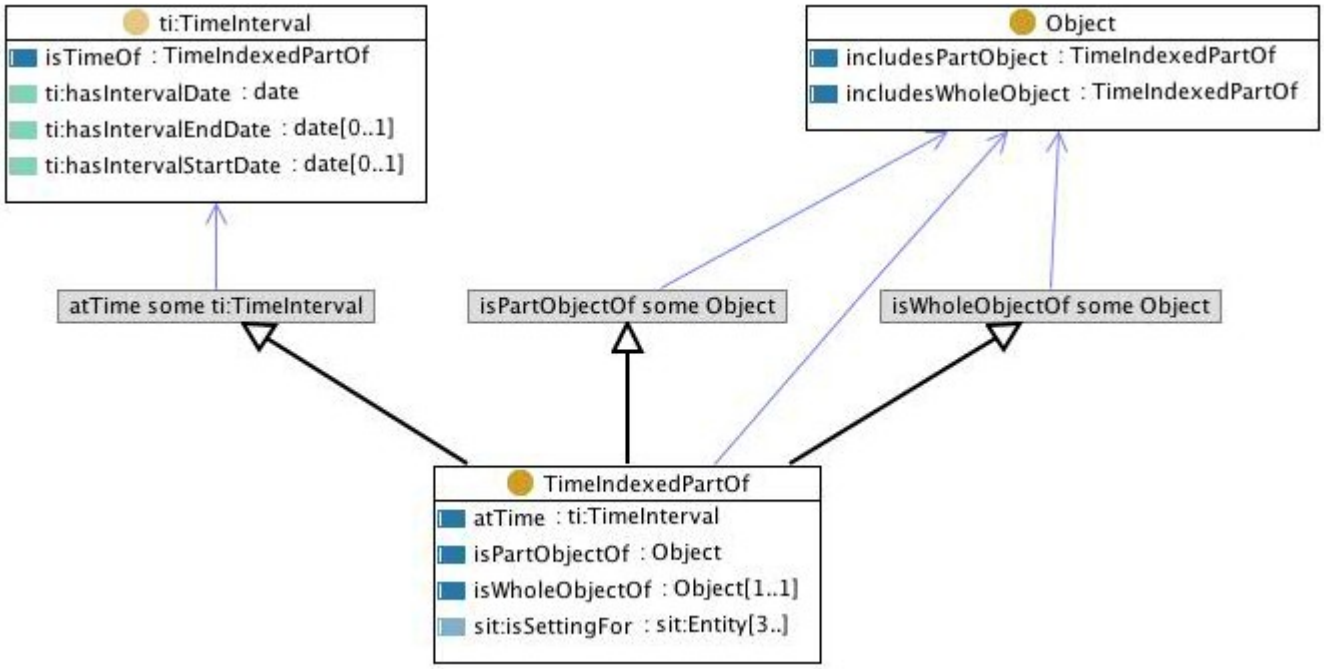
- ask for a review (http://ontologydesignpatterns.org/wiki/index.php?title=Submissions:TimeIndexedPartOf&&action=evaluation)
- post your open review
- specify if this revision takes in account any of the review(s) (http://ontologydesignpatterns.org/wiki/Special:EditData/Takes_in_account_Review_Form/Submi
- add a new scenario for TimeIndexedPartOf

In general, it could be useful to visit the evaluation section (http://ontologydesignpatterns.org/wiki/inde title=Submissions:TimeIndexedPartOf&&action=evaluation) to have information about the evaluation

Current revision ID: **9133**

Graphical representation

Diagram



General description

Name:	time indexed part of
Submitted by:	ValentinaPresutti
Also Known As:	temporary part of
Intent:	To represent objects that have temporary parts.
Domains:	Parts and Collections
Competency Questions:	▪ When was this object part of this other one? ▪ Which object was this one part of at a certain time? ▪ What are the parts of this object at a certain time?
Solution description:	-*-
Reusable OWL Building Block:	http://www.ontologydesignpatterns.org/cp/owl/timeindexedpartof.owl (159)
Consequences:	This Content OP allows designers to represent part-whole relations with a temporal index (holding at a certain time).
Scenarios:	My Toyota Yaris mounted Michelin pneumatics in 2007, but in 2008 it mounts Pirelli pneumatics.
Known Uses:	
Web References:	
Other References:	

Examples (OWL files):	▪ http://www.ontologydesignpatterns.org/cp/examples/timeindexedpartof/yarispneumatics.owl
Extracted From:	▪ http://www.loa-cnr.it/ontologies/DUL.owl
Reengineered From:	
Has Components:	▪ Submissions:PartOf ▪ Submissions:TimeInterval
Specialization Of:	▪ Submissions:Situation
Related CPs:	

Elements

*The **TimeIndexedPartOf** Content OP locally defines the following ontology elements:*

Object (owl:Class) Any physical, social, or mental object, or a substance

Object page

Time Indexed Part Of (owl:Class) A situation that includes at least two Objects, one having the role of whole object, the other(s) being a part(s) of it, and one time interval.

TimeIndexedPartOf page

at time (owl:ObjectProperty) A relation between a temporary part-of situation and the time it occurs at. It is a subproperty of is setting for, its domain is the class of time indexed part of situations, its range is the class time interval.

atTime page

is time of (owl:ObjectProperty) The inverse of the at time object property.

isTimeOf page

includes whole object (owl:ObjectProperty) A relation between a temporary part-of situation and the whole object involved. It is a subproperty of is setting for, its domain is the class of time indexed part of situations, its range is the class object.

includesWholeObject page

is whole object of (owl:ObjectProperty) The inverse of the includes whole object property.

isWholeObjectOf page

includes part object (owl:ObjectProperty) A relation between a temporary part-of situation and the part(s) involved. It is a subproperty of is setting for, its domain is the class of time indexed part of situations, its range is the class object.

includesPartObject page

is part object of (owl:ObjectProperty) The inverse of the includes part object property.

isPartObjectOf page

Additional information

This Content OP locally defines the above elements, it also includes the elements of situation, time interval, and part of Content OPs.

Scenarios

Scenarios about TimeIndexedPartOf

No scenario is added to this Content OP.

Reviews

Reviews about TimeIndexedPartOf

There is no review about this proposal. This revision (revision ID **9133**) takes in account the reviews: none

Other info at evaluation tab (http://ontologydesignpatterns.org/wiki/index.php?title=Submissions:TimeIndexedPartOf&action=evaluation)

Modeling issues

Modeling issues about TimeIndexedPartOf

There is no Modeling issue related to this proposal.

References

Add a reference (http://ontologydesignpatterns.org/wiki/index.php?title=Odp:Add_reference&subject=Submissions%3ATimeIndexedPartOf)

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Category: ProposedContentOP

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