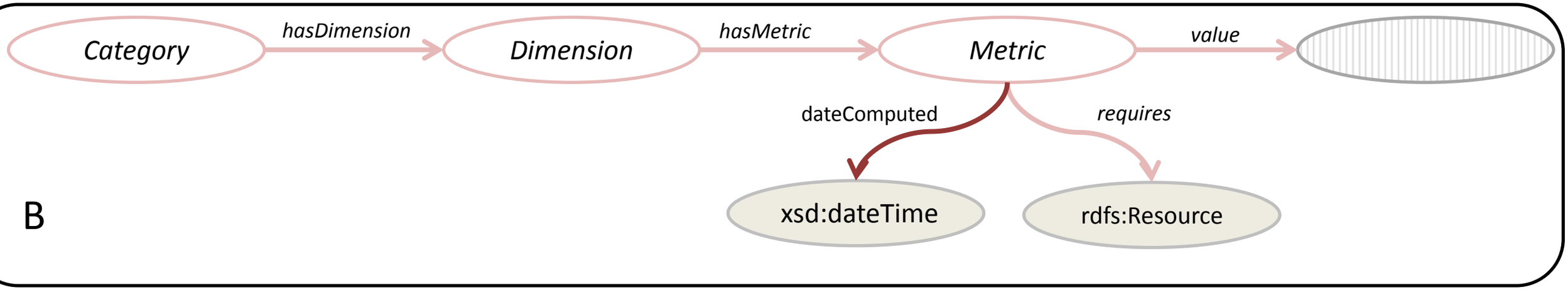
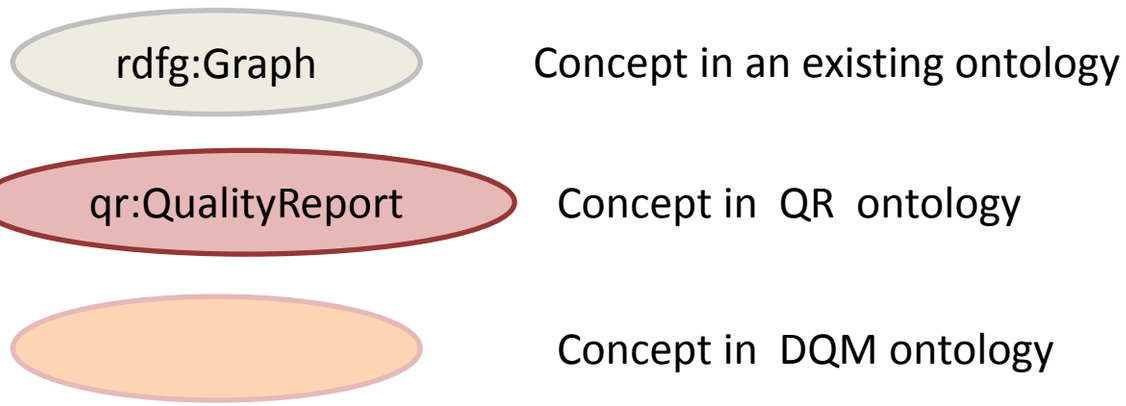
A

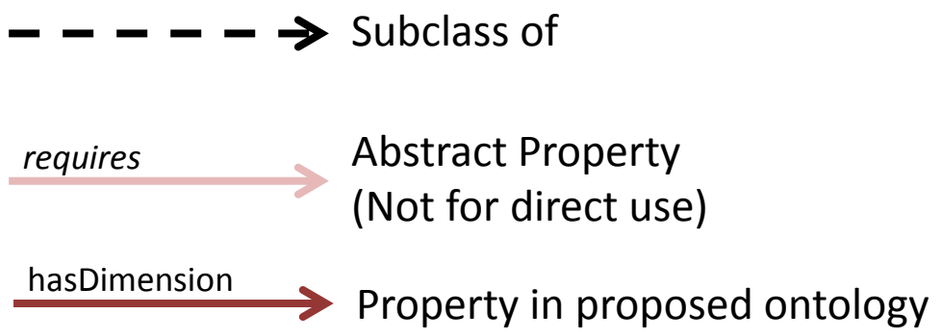
B



Classes

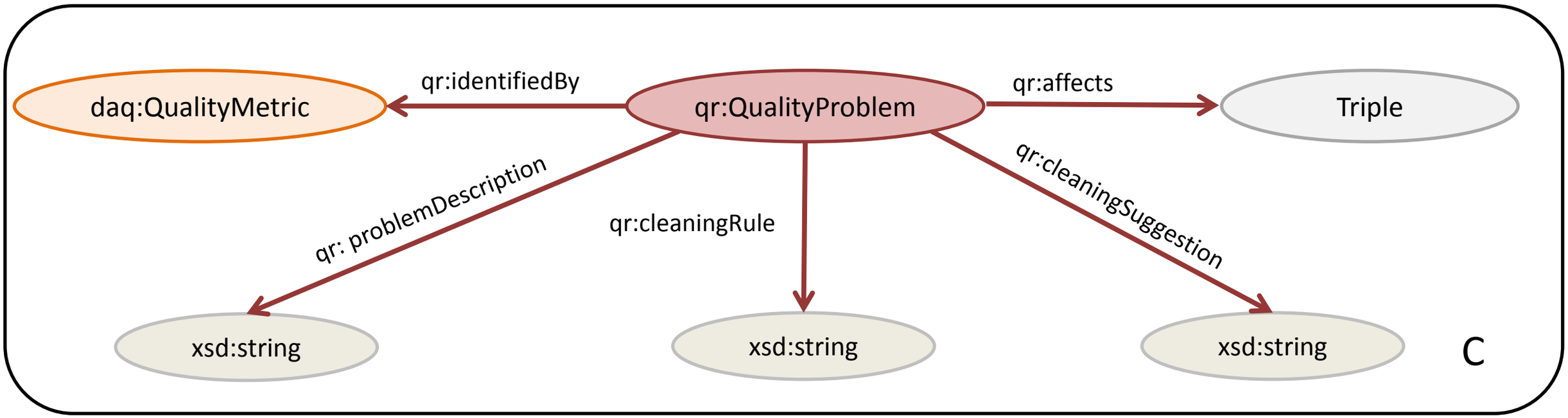


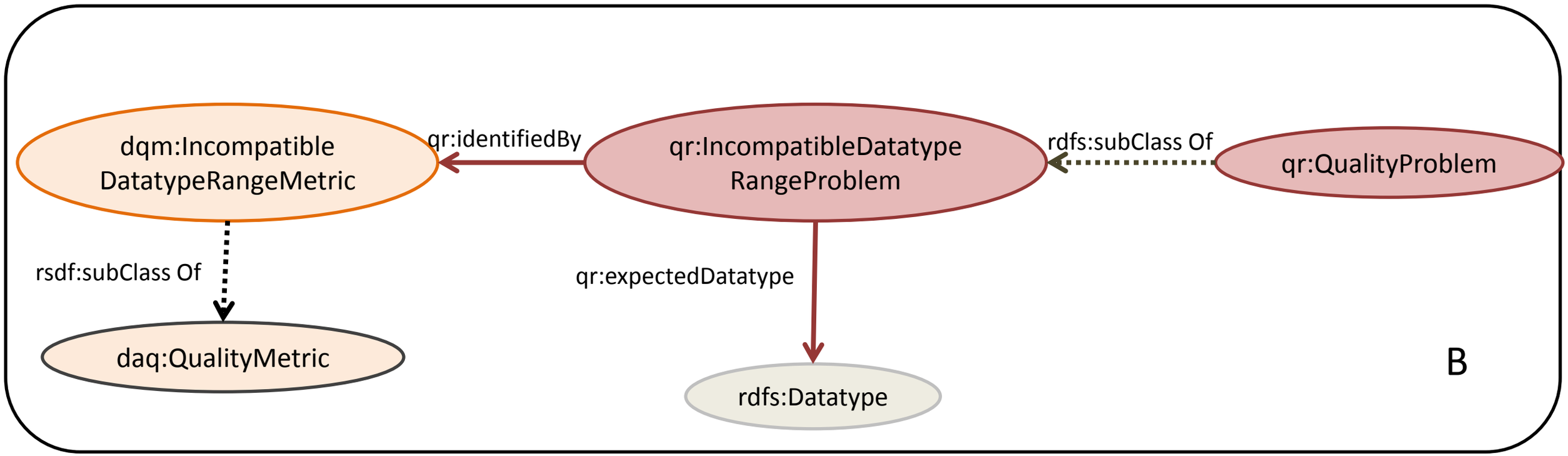
Properties

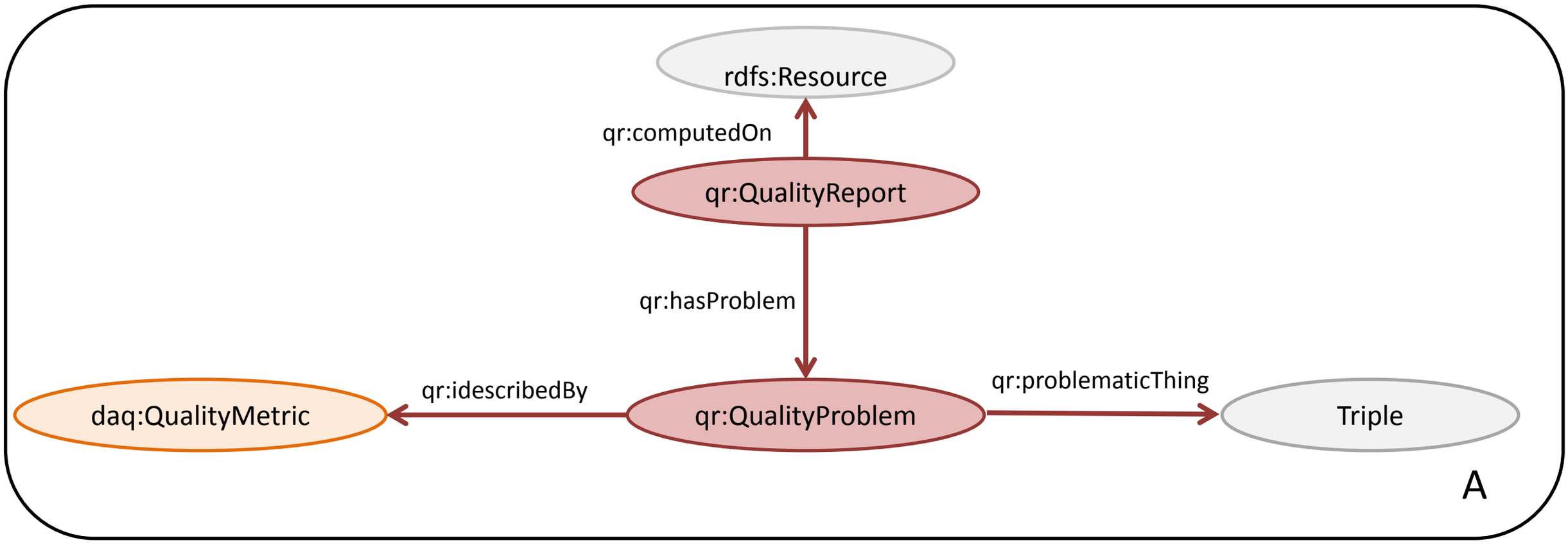


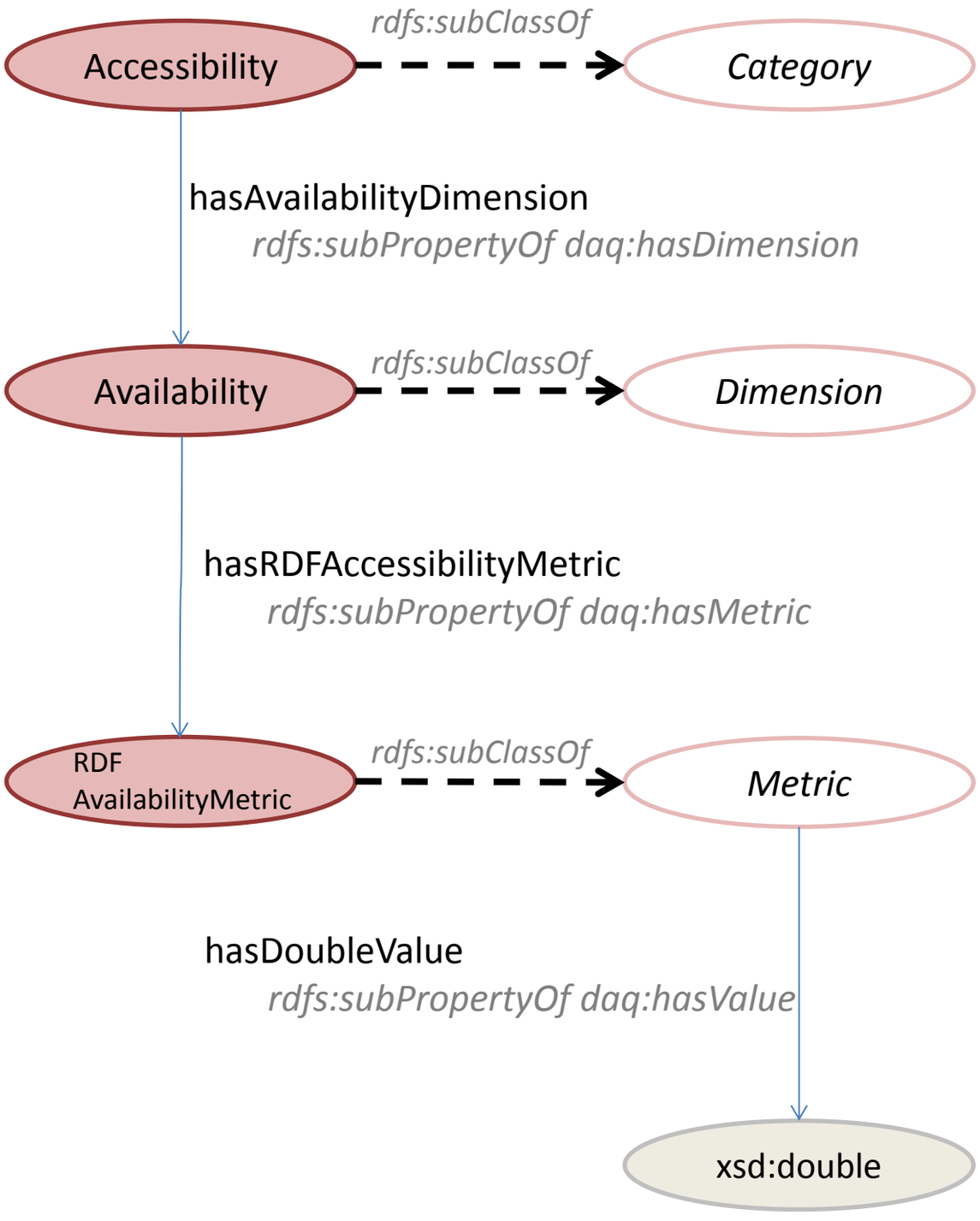
Dataset Quality Ontology (daQ)

Latest Version – 17/01/2014


daq:QualityMetric
qr:identifiedBy
qr:QualityProblem
qr:affects
Triple
qr: problemDescription
qr:cleaningRule
qr:cleaningSuggestion
xsd:string
xsd:string
xsd:string
C


dqm:Incompatible DatatypeRangeMetric
qr:identifiedBy
qr:IncompatibleDatatype RangeProblem
rdfs:subClass Of
qr:QualityProblem
rsdf:subClass Of
qr:expectedDatatype
daq:QualityMetric
rdfs:Datatype
B


rdfs:Resource
qr:computedOn
qr:QualityReport
qr:hasProblem
daq:QualityMetric
qr:idescribedBy
qr:QualityProblem
qr:problematicThing
Triple
A


Accessibility
rdfs:subClassOf
Category
hasAvailabilityDimension
rdfs:subPropertyOf daq:hasDimension
Availability
rdfs:subClassOf
Dimension
hasRDFAccessibilityMetric
rdfs:subPropertyOf daq:hasMetric
RDF AvailabilityMetric
rdfs:subClassOf
Metric
hasDoubleValue
rdfs:subPropertyOf daq:hasValue
xsd:double

Legend

Classes

rdfg:Graph — Concept in an existing ontology

Dataset — Concept in proposed ontology

Category — Abstract concept in proposed ontology. Not for direct usage.

Undefined object: Concept or Literal

Properties

Subclass of

requires — Abstract Property (Not for direct use)

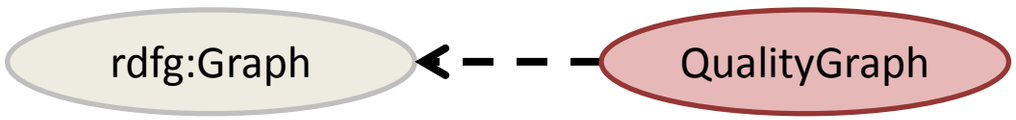
hasDimension — Property in proposed ontology

? — Property in existing ontology

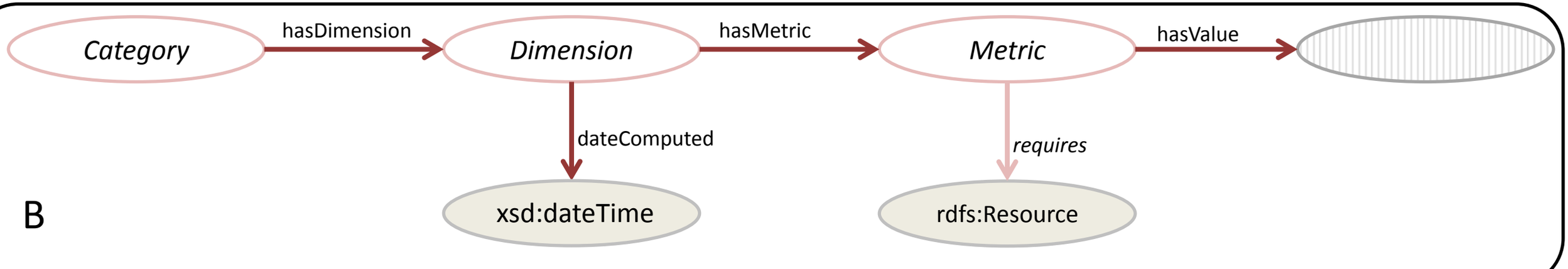
Dataset Quality Ontology (daQ)

Previous Versions

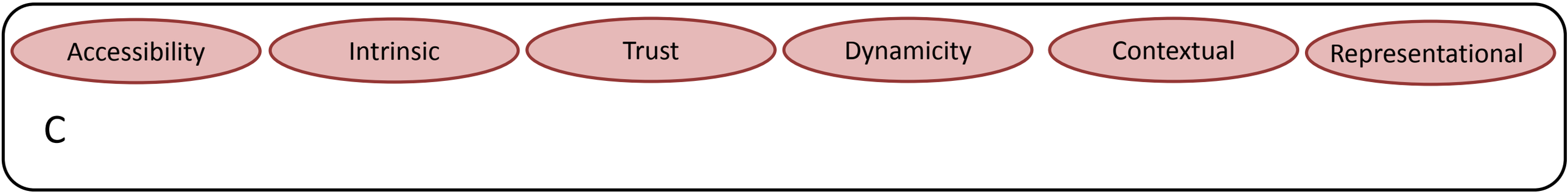
A

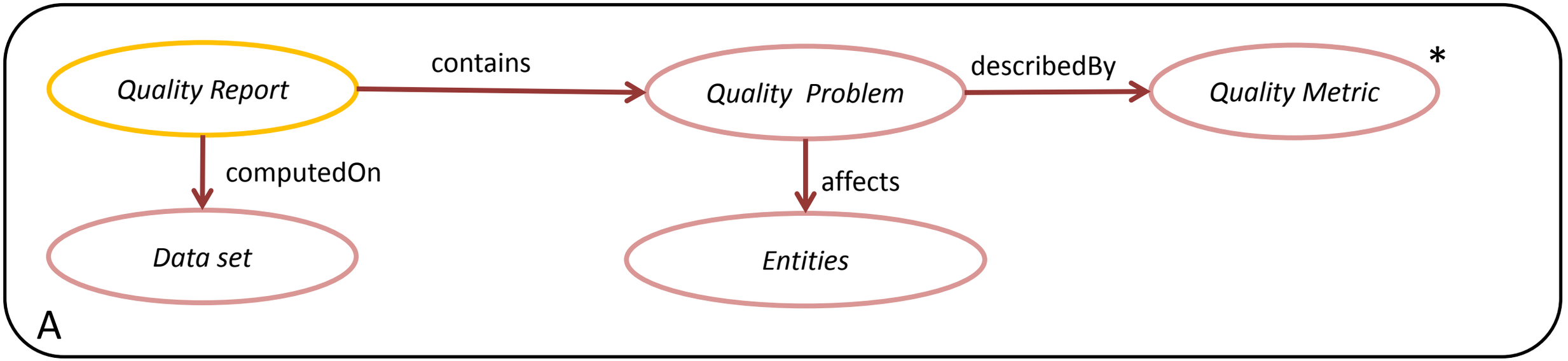

rdfg:Graph
QualityGraph

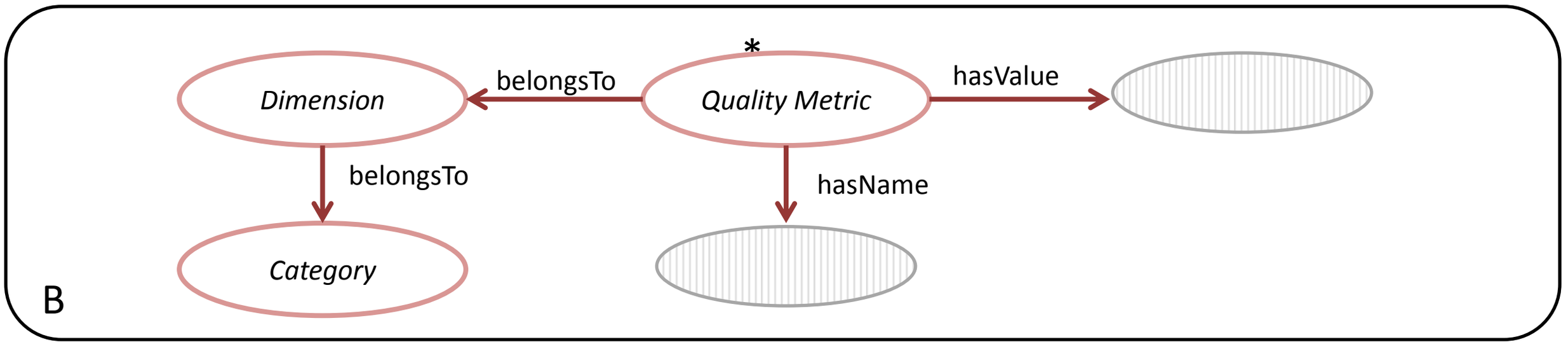
B


Category
hasDimension
Dimension
hasMetric
Metric
hasValue
dateComputed
requires
xsd:dateTime
rdfs:Resource

C

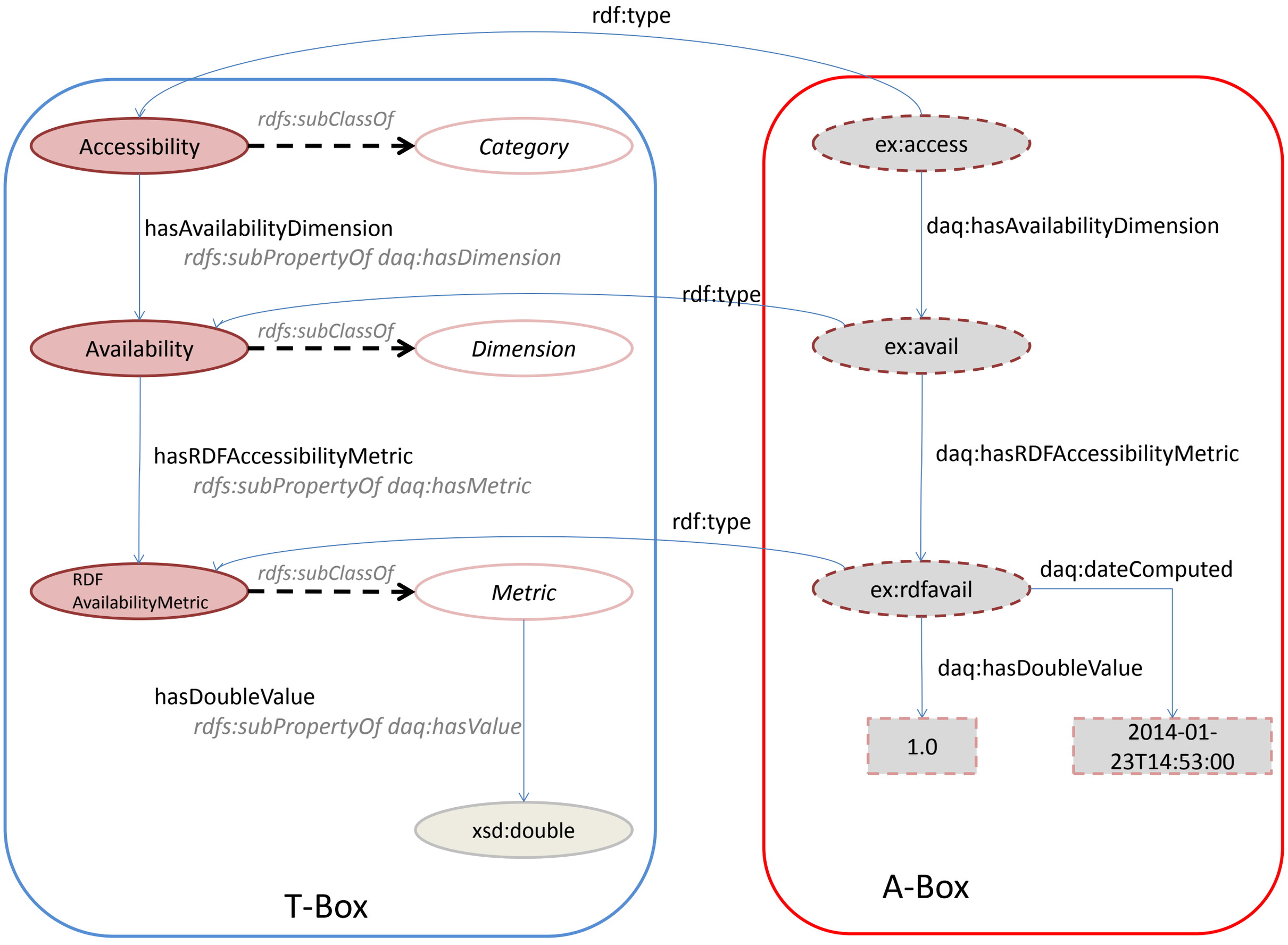

Accessibility
Intrinsic
Trust
Dynamicity
Contextual
Representational

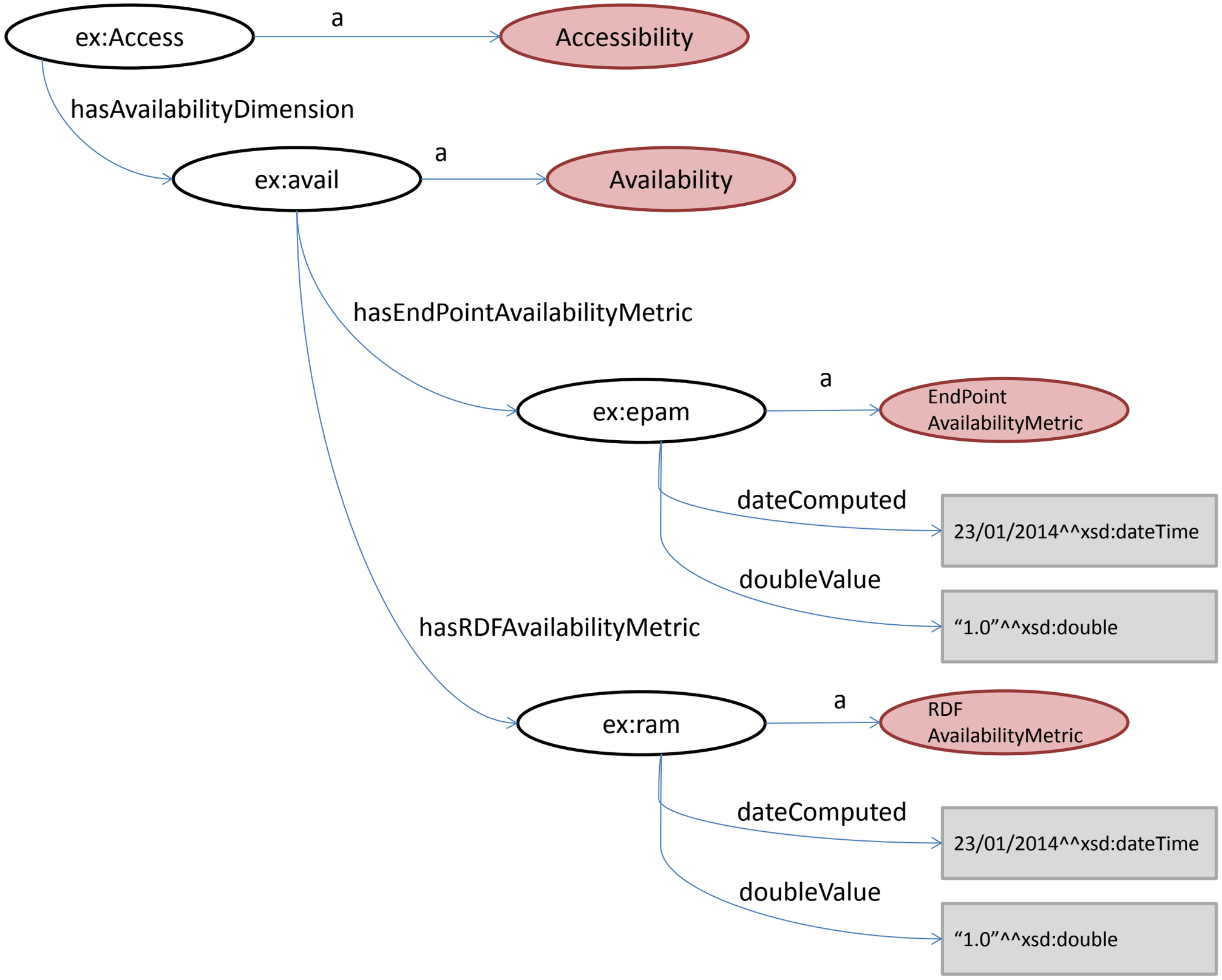

Quality Report
contains
Quality Problem
describedBy
*
Quality Metric
computedOn
affects
Data set
Entities
A


*
Dimension
belongsTo
Quality Metric
hasValue
belongsTo
hasName
Category
B

Dataset Quality Ontology (daQ)

Instances


rdf:type
Accessibility
rdfs:subClassOf
Category
ex:access
hasAvailabilityDimension
rdfs:subPropertyOf daq:hasDimension
daq:hasAvailabilityDimension
rdf:type
Availability
rdfs:subClassOf
Dimension
ex:avail
hasRDFAccessibilityMetric
rdfs:subPropertyOf daq:hasMetric
daq:hasRDFAccessibilityMetric
rdf:type
RDF AvailabilityMetric
rdfs:subClassOf
Metric
ex:rdfavail
daq:dateComputed
daq:hasDoubleValue
hasDoubleValue
rdfs:subPropertyOf daq:hasValue
1.0
2014-01-23T14:53:00
xsd:double
T-Box
A-Box


ex:Access
a
Accessibility
hasAvailabilityDimension
ex:avail
a
Availability
hasEndPointAvailabilityMetric
ex:epam
a
EndPoint
AvailabilityMetric
dateComputed
23/01/2014^^xsd:dateTime
doubleValue
“1.0”^^xsd:double
hasRDFAvailabilityMetric
ex:ram
a
RDF
AvailabilityMetric
dateComputed
23/01/2014^^xsd:dateTime
doubleValue
“1.0”^^xsd:double

DIACHRON
Quality Extension
OPEN Refine

Upload data set, specify cleaning criteria

DIACHRON
Quality assesment service

Identification of quality problems

DIACHRON
Quality Report Ontology

Cleaning suggestions generation

Data set

Export cleaned data

DIACHRON
Quality Extension
OPEN Refine

Application of cleaning rules

Interactive Interface
OPEN Refine

DACHRON
Quality Extension

Quality Extension

Upload data set, specify cleaning criteria

Data set

DACHRON
Quality assesment service

Identification of quality problems

DACHRON
Cleaning Ontology

Generation of cleaning suggestions

Interactive cleaning

OpenRefine
Interactive Interface

Export cleaned data

DACHRON
Quality Extension