

Description logic view: DOLCE-QL

Classes

Thing

abstract

abstract $\sqsubseteq \neg$ perdurant

abstract $\sqsubseteq \neg$ quality

abstract $\sqsubseteq \neg$ endurant

abstract-quality

abstract-quality \sqsubseteq quality

abstract-quality $\sqsubseteq \neg$ physical-quality

abstract-quality $\sqsubseteq \neg$ temporal-quality

abstract-region

abstract-region \sqsubseteq region

abstract-region $\sqsubseteq \neg$ temporal-region

abstract-region $\sqsubseteq \neg$ physical-region

accomplishment

accomplishment \sqsubseteq event

achievement

achievement \sqsubseteq event

amount-of-matter

amount-of-matter \sqsubseteq physical-endurant

amount-of-matter $\sqsubseteq \neg$ feature

amount-of-matter $\sqsubseteq \neg$ physical-object

arbitrary-sum

arbitrary-sum \sqsubseteq endurant

arbitrary-sum $\sqsubseteq \neg$ non-physical-endurant

arbitrary-sum $\sqsubseteq \neg$ physical-endurant

dependent-place

dependent-place \sqsubseteq feature

endurant

endurant \sqsubseteq spatio-temporal-particular
endurant $\sqsubseteq \exists$ participant-in perdurant
endurant $\sqsubseteq \neg$ quality
endurant $\sqsubseteq \neg$ perdurant
endurant $\sqsubseteq \neg$ abstract

event

event \sqsubseteq perdurant

feature

feature \sqsubseteq physical-endurant
feature $\sqsubseteq \exists$ host physical-endurant
feature $\sqsubseteq \neg$ amount-of-matter
feature $\sqsubseteq \neg$ physical-object

non-physical-endurant

non-physical-endurant \sqsubseteq endurant
non-physical-endurant $\sqsubseteq \neg$ physical-endurant
non-physical-endurant $\sqsubseteq \neg$ arbitrary-sum

non-physical-object

non-physical-object \sqsubseteq non-physical-endurant
non-physical-object $\sqsubseteq \exists$ generically-dependent-on physical-endurant

particular

perdurant

perdurant \sqsubseteq spatio-temporal-particular
perdurant $\sqsubseteq \exists$ has-quality temporal-location_q
perdurant $\sqsubseteq \exists$ participant endurant
perdurant $\sqsubseteq \neg$ abstract
perdurant $\sqsubseteq \neg$ endurant
perdurant $\sqsubseteq \neg$ quality

physical-endurant

physical-endurant $\sqsubseteq \exists$ has-quality spatial-location_q
physical-endurant $\sqsubseteq \exists$ has-quality physical-quality
physical-endurant \sqsubseteq endurant
physical-endurant $\sqsubseteq \neg$ non-physical-endurant
physical-endurant $\sqsubseteq \neg$ arbitrary-sum

physical-object

physical-object \sqsubseteq physical-endurant
physical-object $\sqsubseteq \neg$ amount-of-matter
physical-object $\sqsubseteq \neg$ feature

physical-quality

physical-quality \sqsubseteq quality
physical-quality $\sqsubseteq \exists$ inherent-in physical-endurant
physical-quality $\sqsubseteq \neg$ abstract-quality
physical-quality $\sqsubseteq \neg$ temporal-quality

physical-region

physical-region \sqsubseteq region
physical-region $\sqsubseteq \neg$ temporal-region
physical-region $\sqsubseteq \neg$ abstract-region

process

process \sqsubseteq stative

proposition

proposition \sqsubseteq abstract

quale

quality

quality \sqsubseteq spatio-temporal-particular
quality $\sqsubseteq \exists$ inherent-in particular
quality $\sqsubseteq \neg$ endurant
quality $\sqsubseteq \neg$ abstract
quality $\sqsubseteq \neg$ perdurant

quality-space

region

region \sqsubseteq Thing

relevant-part

relevant-part \sqsubseteq feature

set

set \sqsubseteq abstract

space-region

space-region \sqsubseteq physical-region

spatial-location_q

spatial-location_q \sqsubseteq physical-quality

spatio-temporal-particular

spatio-temporal-particular \sqsubseteq abstract

spatio-temporal-region

spatio-temporal-region \sqsubseteq space-region

state

state \sqsubseteq stative

stative

stative \sqsubseteq perdurant

temporal-location_q

temporal-location_q \sqsubseteq temporal-quality

temporal-quality

temporal-quality \sqsubseteq quality

temporal-quality \sqsubseteq \exists inherent-in perdurant

temporal-quality \sqsubseteq \neg abstract-quality

temporal-quality \sqsubseteq \neg physical-quality

temporal-region

temporal-region \sqsubseteq region

temporal-region \sqsubseteq \neg physical-region

temporal-region \sqsubseteq \neg abstract-region

time-interval

time-interval \sqsubseteq temporal-region

Object properties

abstract-location

\sqsubseteq exact-location
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlabstract-location}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.location-of}_i^-$
 \exists abstract-location Thing \sqsubseteq non-physical-endurant
 $\top \sqsubseteq \forall$ abstract-location abstract-region

abstract-location-of

\sqsubseteq exact-location-of
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlabstract-location}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.location-of}_i^-$
 \exists abstract-location-of Thing \sqsubseteq abstract-region
 $\top \sqsubseteq \forall$ abstract-location-of non-physical-endurant

constant-participant

\sqsubseteq participant
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlconstant-participant-in}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.participant}_i^-$
 \exists constant-participant Thing \sqsubseteq perdurant
 $\top \sqsubseteq \forall$ constant-participant endurant

constant-participant-in

\sqsubseteq participant-in
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlconstant-participant-in}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.participant}_i^-$
 \exists constant-participant-in Thing \sqsubseteq endurant
 $\top \sqsubseteq \forall$ constant-participant-in perdurant

exact-location

\sqsubseteq generic-location
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlexact-location}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.location-of}_i^-$
 \exists exact-location Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ exact-location region

exact-location-of

\sqsubseteq generic-location-of
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlexact-location}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.location-of}_i^-$
 \exists exact-location-of Thing \sqsubseteq region

$\top \sqsubseteq \forall$ exact-location-of particular

generic-constituent

\sqsubseteq immediate-relation

$\{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl} \text{generic-constituent-of}_i \equiv \{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl} \text{constituent}_i^-$

\exists generic-constituent Thing \sqsubseteq particular

$\top \sqsubseteq \forall$ generic-constituent particular

generic-constituent-of

\sqsubseteq immediate-relation-i

$\{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl} \text{generic-constituent-of}_i \equiv \{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl} \text{constituent}_i^-$

\exists generic-constituent-of Thing \sqsubseteq particular

$\top \sqsubseteq \forall$ generic-constituent-of particular

generic-dependent

\sqsubseteq immediate-relation

$\{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl} \text{generic-dependent}_i \equiv \{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl} \text{dependent-on}_i^-$

\exists generic-dependent Thing \sqsubseteq particular

$\top \sqsubseteq \forall$ generic-dependent particular

generic-location

\sqsubseteq mediated-relation

$\{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl} \text{generic-location-of}_i \equiv \{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl} \text{location}_i^-$

\exists generic-location Thing \sqsubseteq particular

$\top \sqsubseteq \forall$ generic-location particular

generic-location-of

\sqsubseteq mediated-relation-i

$\{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl} \text{generic-location-of}_i \equiv \{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl} \text{location}_i^-$

\exists generic-location-of Thing \sqsubseteq particular

$\top \sqsubseteq \forall$ generic-location-of particular

generically-dependent-on

\sqsubseteq immediate-relation-i

$\{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl} \text{generic-dependent}_i \equiv \{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl} \text{dependent-on}_i^-$

\exists generically-dependent-on Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ generically-dependent-on particular

has-qualè

\sqsubseteq q-location
 $\text{¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlhas-qualè}_i \equiv \text{¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlqualè}_i^-$
 \exists has-qualè Thing \sqsubseteq quality
 $\top \sqsubseteq \forall$ has-qualè qualè

has-quality

\sqsubseteq immediate-relation-i
 $\text{¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlinherent-in}_i \equiv \text{¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlhas-quality}_i^-$
 \exists has-quality Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ has-quality quality

has-t-quality

\sqsubseteq has-quality
 $\text{¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlt-inherent-in}_i \equiv \text{¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlhas-t-quality}_i^-$
 \exists has-t-quality Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ has-t-quality quality

host

\sqsubseteq specifically-constantly-dependent-on
 $\text{¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlhost-of}_i \equiv \text{¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlhost}_i^-$
 \exists host Thing \sqsubseteq feature
 $\top \sqsubseteq \forall$ host physical-endurant

host-of

\sqsubseteq specific-constant-dependent
 $\text{¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlhost-of}_i \equiv \text{¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlhost}_i^-$
 \exists host-of Thing \sqsubseteq physical-endurant
 $\top \sqsubseteq \forall$ host-of feature

immediate-relation

$\text{¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlimmediate-relation-i}_i \equiv \text{¡http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlimmediate-relation}_i^-$
 \exists immediate-relation Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ immediate-relation particular

immediate-relation-i

$\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl}\text{immediate-relation-i}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl}\text{relation}_i^-$
 $\exists \text{ immediate-relation-i Thing } \sqsubseteq \text{ particular}$
 $\top \sqsubseteq \forall \text{ immediate-relation-i particular}$

inherent-in

$\sqsubseteq \text{ immediate-relation}$
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl}\text{inherent-in}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl}\text{inherent-in}_i^-$
 $\exists \text{ inherent-in Thing } \sqsubseteq \text{ quality}$
 $\top \sqsubseteq \forall \text{ inherent-in particular}$

life

$\sqsubseteq \text{ constant-participant-in}$
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl}\text{life}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl}\text{life-of}_i^-$
 $\exists \text{ life Thing } \sqsubseteq \text{ enduring}$
 $\top \sqsubseteq \forall \text{ life perdurant}$

life-of

$\sqsubseteq \text{ constant-participant}$
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl}\text{life}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl}\text{life-of}_i^-$
 $\exists \text{ life-of Thing } \sqsubseteq \text{ perdurant}$
 $\top \sqsubseteq \forall \text{ life-of enduring}$

mediated-relation

$\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl}\text{mediated-relation-i}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl}\text{mediated-relation}_i^-$
 $\exists \text{ mediated-relation Thing } \sqsubseteq \text{ particular}$
 $\top \sqsubseteq \forall \text{ mediated-relation particular}$

mediated-relation-i

$\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl}\text{mediated-relation-i}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl}\text{mediated-relation}_i^-$
 $\exists \text{ mediated-relation-i Thing } \sqsubseteq \text{ particular}$
 $\top \sqsubseteq \forall \text{ mediated-relation-i particular}$

overlaps

$\sqsubseteq \text{ mediated-relation}$
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl}\text{overlaps}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl}\text{overlaps}_i^-$
 $\exists \text{ overlaps Thing } \sqsubseteq \text{ particular}$
 $\top \sqsubseteq \forall \text{ overlaps particular}$

participant

⊆ immediate-relation

$\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlparticipant}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlpa}$
 in_i^-

\exists participant Thing \sqsubseteq perdurant

$\top \sqsubseteq \forall$ participant endurant

participant-in

⊆ immediate-relation-i

$\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlparticipant}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlpa}$
 in_i^-

\exists participant-in Thing \sqsubseteq endurant

$\top \sqsubseteq \forall$ participant-in perdurant

partly-compresent

⊆ mediated-relation

$\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlpartly-compresent}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite}$
 compresent_i^-

\exists partly-compresent Thing \sqsubseteq particular

$\top \sqsubseteq \forall$ partly-compresent particular

physical-location

⊆ exact-location

$\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlphysical-location}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite}$
 location-of_i^-

\exists physical-location Thing \sqsubseteq physical-endurant

$\top \sqsubseteq \forall$ physical-location physical-region

physical-location-of

⊆ exact-location-of

$\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlphysical-location}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite}$
 location-of_i^-

\exists physical-location-of Thing \sqsubseteq physical-region

$\top \sqsubseteq \forall$ physical-location-of physical-endurant

q-location

⊆ immediate-relation

$\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlq-location}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlq-lo}$
 of_i^-

\exists q-location Thing \sqsubseteq quality

$\top \sqsubseteq \forall$ q-location region

q-location-of

\sqsubseteq immediate-relation-i
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlq-location}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlq-location}_i^-$
 \exists q-location-of Thing \sqsubseteq region
 $\top \sqsubseteq \forall$ q-location-of quality

q-present-at

\sqsubseteq mediated-relation
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltime-of-q-presence-of}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltime-of-q-presence-of}_i^-$
 \exists q-present-at Thing \sqsubseteq physical-quality
 $\top \sqsubseteq \forall$ q-present-at time-interval

quale-of

\sqsubseteq q-location-of
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlhas-quale}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlhas-quale}_i^-$
 \exists quale-of Thing \sqsubseteq quale
 $\top \sqsubseteq \forall$ quale-of quality

r-location

\sqsubseteq immediate-relation
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlr-location}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlr-location}_i^-$
 \exists r-location Thing \sqsubseteq region
 $\top \sqsubseteq \forall$ r-location region

r-location-of

\sqsubseteq immediate-relation-i
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlr-location}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlr-location}_i^-$
 \exists r-location-of Thing \sqsubseteq region
 $\top \sqsubseteq \forall$ r-location-of region

sibling-part

\sqsubseteq mediated-relation
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl sibling-part}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owl sibling-part}_i^-$
 \exists sibling-part Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ sibling-part particular

spatio-temporal-presence-of

\sqsubseteq exact-location-of
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlspatio-temporal-presence-of}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlspatio-temporally-present-at}_i^-$
 \exists spatio-temporal-presence-of Thing \sqsubseteq spatio-temporal-region
 $\top \sqsubseteq \forall$ spatio-temporal-presence-of particular

spatio-temporally-present-at

\sqsubseteq exact-location
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlspatio-temporal-presence-of}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlspatio-temporally-present-at}_i^-$
 \exists spatio-temporally-present-at Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ spatio-temporally-present-at spatio-temporal-region

specific-constant-constituent

\sqsubseteq immediate-relation
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlspecific-constant-constituent}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlspecific-constant-constituent-of}_i^-$
 \exists specific-constant-constituent Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ specific-constant-constituent particular

specific-constant-constituent-of

\sqsubseteq immediate-relation-i
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlspecific-constant-constituent}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlspecific-constant-constituent-of}_i^-$
 \exists specific-constant-constituent-of Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ specific-constant-constituent-of particular

specific-constant-dependent

\sqsubseteq immediate-relation
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlspecific-constant-dependent}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlspecifically-constantly-dependent-on}_i^-$
 \exists specific-constant-dependent Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ specific-constant-dependent particular

specifically-constantly-dependent-on

\sqsubseteq immediate-relation-i
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlspecific-constant-dependent}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlspecifically-constantly-dependent-on}_i^-$
 \exists specifically-constantly-dependent-on Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ specifically-constantly-dependent-on particular

strong-connection

\sqsubseteq mediated-relation

$\{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlstrong-connection}_i \equiv \{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite-connection}_i \}^-$

\exists strong-connection Thing \sqsubseteq particular

$\top \sqsubseteq \forall$ strong-connection particular

t-inherent-in

\sqsubseteq inherent-in

$\{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlt-inherent-in}_i \equiv \{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlt-quality}_i \}^-$

\exists t-inherent-in Thing \sqsubseteq quality

$\top \sqsubseteq \forall$ t-inherent-in particular

temporary-participant

\sqsubseteq participant

$\{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltemporary-participant}_i \equiv \{ \text{http://www.loa-cnr.it/ontologies/DOLCE-participant-in}_i \}^-$

\exists temporary-participant Thing \sqsubseteq perdurant

$\top \sqsubseteq \forall$ temporary-participant endurant

temporary-participant-in

\sqsubseteq participant-in

$\{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltemporary-participant}_i \equiv \{ \text{http://www.loa-cnr.it/ontologies/DOLCE-participant-in}_i \}^-$

\exists temporary-participant-in Thing \sqsubseteq endurant

$\top \sqsubseteq \forall$ temporary-participant-in perdurant

time-of-q-presence-of

\sqsubseteq mediated-relation-i

$\{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltime-of-q-presence-of}_i \equiv \{ \text{http://www.loa-cnr.it/ontologies/DOLCE-present-at}_i \}^-$

\exists time-of-q-presence-of Thing \sqsubseteq time-interval

$\top \sqsubseteq \forall$ time-of-q-presence-of physical-quality

total-constant-participant

\sqsubseteq constant-participant

$\{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltotal-constant-participant}_i \equiv \{ \text{http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltotal-constant-participant-in}_i \}^-$

\exists total-constant-participant Thing \sqsubseteq perdurant

$\top \sqsubseteq \forall$ total-constant-participant endurant

total-constant-participant-in

\sqsubseteq constant-participant-in
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltotal-constant-participant-in}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltotal-constant-participant-in}_i^-$
 \exists total-constant-participant-in Thing \sqsubseteq endurant
 $\top \sqsubseteq \forall$ total-constant-participant-in perdurant

total-temporary-participant

\sqsubseteq temporary-participant
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltotal-temporary-participant-in}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltotal-temporary-participant-in}_i^-$
 \exists total-temporary-participant Thing \sqsubseteq perdurant
 $\top \sqsubseteq \forall$ total-temporary-participant endurant

total-temporary-participant-in

\sqsubseteq temporary-participant-in
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltotal-temporary-participant-in}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owltotal-temporary-participant-in}_i^-$
 \exists total-temporary-participant-in Thing \sqsubseteq endurant
 $\top \sqsubseteq \forall$ total-temporary-participant-in perdurant

weak-connection

\sqsubseteq immediate-relation
 $\text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlweak-connection}_i \equiv \text{!http://www.loa-cnr.it/ontologies/DOLCE-Lite.owlweak-connection}_i^-$
 \exists weak-connection Thing \sqsubseteq particular
 $\top \sqsubseteq \forall$ weak-connection particular

Data properties

Individuals

Datatypes

string