CRMntp

Definition of the CRMntp

An Extension of CIDOC CRM to support negative statements

Proposal for approval by CIDOC CRM-SIG

Version ?

Date ?

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Introduction

This document describes work which uses and extends the CIDOC Conceptual Reference Model (CRM, ISO21127). The CIDOC-CRM definition document should be read before this document. References to the CRM in this document are taken from CRM version 7.1.1 maintained by CIDOC.

Scope

This extension has been developed after analysis of registration and survey forms primarily for use in conservation documentation. While the initiative for its development started within a conservation documentation context, the principles considered apply to other contexts. The extension provides properties which allow making statements in the following cases:

a) When recording instances is not possible but recording the types of those instances is. This could be the case when there are no resources or interest to record numerous instances of the same type. For example, it is often not possible to record every page marker of a historic book with many page markers, but it may be possible to record their types.

b) When recording non-existence. This could be the case when a comprehensive observation of a situation confirms that there is no instance of a specific type. For example, when recording historic books, one may be able to confirm that there are no page markers on it after examining all leaves.

The use of these properties allows identification of contradictory information within a knowledge base on the existence and non-existence of instances.

Status

The CIDOC-CRM SIG has approved the development of the extension. This is the current version of the development as proposed by the maintainers to be considered by the SIG.

CRMntp property hierarchy, aligned with portions from the CIDOC CRM property hierarchies

This property hierarchy lists:

- all properties declared in <Current Family model>,
- all properties declared in <Other Family model/s>[1], and CIDOC CRM that are declared as superproperties of properties declared in <Current Family model>,
- all properties declared in <Other Family model/s> and CIDOC CRM that are part of a complete path of which a property declared in <Current Family model>, is declared to be a shortcut.

<table>

[1] It should be clearly mentioned the versions of other models. For example:
CRM <family model name> ver. XX

List of external properties used in <Current Family model>

Property identifier	Property name	Model	Version
P9	consists of (forms part of)	CRM base	6.2

CRMntp Property Declarations

TP1 is identified by appellation type

Domain:
E1 CRM Entity

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E1 CRM Entity, *P1 is identified by (identifies)*, E41 Appellation, *P2 has type*, E55 Type

Examples:
book is identified by an ISBN number

In First Order Logic:
TP1(x,y) ⇒ E1(x)
TP1(x,y) ⇒ E55(y)
TP1(x,y) ⇔ (∃ z)[E41(z) ∧ P1(x,z) ∧ P2(z,y)]

TP3 has note of type

Domain:
E1 CRM Entity

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E1 CRM Entity, *P3 has note*, E62 String, *P2 has type*, E55 Type

Examples:
todo

In First Order Logic:
TP3(x,y) ⇒ E1(x)
TP3(x,y) ⇒ E55(y)
TP3(x,y) ⇔ (∃ z)[E62(z) ∧ P3(x,z) ∧ P2(z,y)]

TP4 has time-span of type

Domain:
E2 Temporal Entity

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E2 Temporal Entity, *P4 has time-span (is time-span of)*, E52 Time-Span, *P2 has type*, E55 Type

Examples:
todo

In First Order Logic:
TP4(x,y) ⇒ E2(x)
TP4(x,y) ⇒ E55(y)
TP4(x,y) ⇔ (∃ z)[E52(z) ∧ P4(x,z) ∧ P2(z,y)]

TP5 consists of condition state of type

Domain:
E3 Condition State

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E3 Condition State, *P5 consists of (forms part of)*, E3 Condition State, *P2 has type*, E55 Type

Examples:
corroded condition of metal object consists of pitting

In First Order Logic:
TP5(x,y) ⇒ E3(x)
TP5(x,y) ⇒ E55(y)
TP5(x,y) ⇔ (∃ z)[E3(z) ∧ P5(x,z) ∧ P2(z,y)]

TP7 took place at place of type

Domain:
E4 Period

Range:

E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E4 Period, *P7 took place at (witnessed)*, E53 Place, *P2 has type*, E55 Type

Examples:
battle took place at a city

In First Order Logic:
TP7(x,y) ⇒ E4(x)
TP7(x,y) ⇒ E55(y)
TP7(x,y) ⇔ (∃ z)[E53(z) ∧ P7(x,z) ∧ P2(z,y)]

TP8 took place on or within physical thing of type

Domain:
E4 Period

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E4 Period, *P8 took place on or within (witnessed)*, E18 Physical Thing, *P2 has type*, E55 Type

Examples:
Nelson died on a ship

In First Order Logic:
TP8(x,y) ⇒ E4(x)
TP8(x,y) ⇒ E55(y)
TP8(x,y) ⇔ (∃ z)[E18(z) ∧ P8(x,z) ∧ P2(z,y)]

TP11 had participant of type

Domain:
E5 Event

Range:
E55 Type

Superproperty of:
todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E5 Event, *P11 had participant (participated in)*, E39 Actor, *P2 has type*, E55 Type

Examples:

todo

In First Order Logic:

TP11(x,y) ⇒ E5(x)
TP11(x,y) ⇒ E55(y)
TP11(x,y) ⇔ (∃ z)[E39(z) ∧ P11(x,z) ∧ P2(z,y)]

TP12 occurred in the presence of persistent item of type

Domain:

E5 Event

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E5 Event, *P12 occurred in the presence of (was present at)*, E77 Persistent Item, *P2 has type*, E55 Type

Examples:

Kennedy was assassinated in his presidential car

In First Order Logic:

TP12(x,y) ⇒ E5(x)
TP12(x,y) ⇒ E55(y)
TP12(x,y) ⇔ (∃ z)[E77(z) ∧ P12(x,z) ∧ P2(z,y)]

TP13 destroyed physical thing of type

Domain:

E6 Destruction

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E6 Destruction, *P13 destroyed (was destroyed by)*, E18 Physical Thing, *P2 has type*, E55 Type

Examples:

volcano eruption destroyed houses

In First Order Logic:

TP13(x,y) ⇒ E6(x)
TP13(x,y) ⇒ E55(y)
TP13(x,y) ⇔ (∃ z)[E18(z) ∧ P13(x,z) ∧ P2(z,y)]

TP14 carried out by actor of type

Domain:

E7 Activity

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E7 Activity, *P14 carried out by (performed)*, E39 Actor, *P2 has type*, E55 Type

Examples:

todo

In First Order Logic:

TP14(x,y) ⇒ E7(x)
TP14(x,y) ⇒ E55(y)
TP14(x,y) ⇔ (∃ z)[E39(z) ∧ P14(x,z) ∧ P2(z,y)]

TP15 was influenced by entity of type

Domain:

E7 Activity

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E7 Activity, *P15 was influenced by (influenced)*, E1 CRM Entity, *P2 has type*, E55 Type

Examples:

production was influenced by a document of type “production planning document”

In First Order Logic:

TP15(x,y) ⇒ E7(x)
TP15(x,y) ⇒ E55(y)
TP15(x,y) ⇔ (∃ z)[E1(z) ∧ P15(x,z) ∧ P2(z,y)]

TP17 was motivated by entity of type

Domain:

E7 Activity

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E7 Activity, *P17 was motivated by (motivated)*, E1 CRM Entity, *P2 has type*, E55 Type

Examples:

conservation work was motivated by condition state of type “poor”

In First Order Logic:

TP17(x,y) ⇒ E7(x)
TP17(x,y) ⇒ E55(y)
TP17(x,y) ⇔ (∃ z)[E1(z) ∧ P17(x,z) ∧ P2(z,y)]

TP20 had specific purpose of event of type

Domain:

E7 Activity

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E7 Activity, *P20 had specific purpose (was purpose of)*, E5 Event, *P2 has type*, E55 Type

Examples:

todo

In First Order Logic:

TP20(x,y) ⇒ E7(x)
TP20(x,y) ⇒ E55(y)
TP20(x,y) ⇔ (∃ z)[E5(z) ∧ P20(x,z) ∧ P2(z,y)]

TP22 transferred title to actor of type

Domain:
E8 Acquisition

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E8 Acquisition, *P22 transferred title to (acquired title through)*, E39 Actor, *P2 has type*, E55 Type

Examples:
todo

In First Order Logic:
TP22(x,y) ⇒ E8(x)
TP22(x,y) ⇒ E55(y)
TP22(x,y) ⇔ (∃ z)[E39(z) ∧ P22(x,z) ∧ P2(z,y)]

TP23 transferred title from actor of type

Domain:
E8 Acquisition

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E8 Acquisition, *P23 transferred title from (surrendered title through)*, E39 Actor, *P2 has type*, E55 Type

Examples:
todo

In First Order Logic:
TP23(x,y) ⇒ E8(x)
TP23(x,y) ⇒ E55(y)
TP23(x,y) ⇔ (∃ z)[E39(z) ∧ P23(x,z) ∧ P2(z,y)]

TP24 transferred title of physical thing of type

Domain:
E8 Acquisition

Range:

E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E8 Acquisition, *P24 transferred title of (changed ownership through)*, E18 Physical Thing, *P2 has type*, E55 Type

Examples:
purchase bought object of type book

In First Order Logic:
TP24(x,y) ⇒ E8(x)
TP24(x,y) ⇒ E55(y)
TP24(x,y) ⇔ (∃ z)[E18(z) ∧ P24(x,z) ∧ P2(z,y)]

TP25 moved physical object of type

Domain:
E9 Move

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E9 Move, *P25 moved (moved by)*, E19 Physical Object, *P2 has type*, E55 Type

Examples:
shipment contains books

In First Order Logic:
TP25(x,y) ⇒ E9(x)
TP25(x,y) ⇒ E55(y)
TP25(x,y) ⇔ (∃ z)[E19(z) ∧ P25(x,z) ∧ P2(z,y)]

TP26 moved to place of type

Domain:
E9 Move

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E9 Move, *P26 moved to (was destination of)*, E53 Place, *P2 has type*, E55 Type

Examples:
collection move to a store room

In First Order Logic:
TP26(x,y) ⇒ E9(x)
TP26(x,y) ⇒ E55(y)
TP26(x,y) ⇔ (∃ z)[E53(z) ∧ P26(x,z) ∧ P2(z,y)]

TP27 moved from place of type

Domain:
E9 Move

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E9 Move, *P27 moved from (was origin of)*, E53 Place, *P2 has type*, E55 Type

Examples:
collection move from a gallery

In First Order Logic:
TP27(x,y) ⇒ E9(x)
TP27(x,y) ⇒ E55(y)
TP27(x,y) ⇔ (∃ z)[E53(z) ∧ P27(x,z) ∧ P2(z,y)]

TP28 custody surrendered by actor of type

Domain:
E10 Transfer of Custody

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:

This property is a shortcut of the fully developed path: E10 Transfer of Custody, *P28 custody surrendered by (surrendered custody through)*, E39 Actor, *P2 has type*, E55 Type

Examples:

todo

In First Order Logic:

TP28(x,y) ⇒ E10(x)
TP28(x,y) ⇒ E55(y)
TP28(x,y) ⇔ (∃ z)[E39(z) ∧ P28(x,z) ∧ P2(z,y)]

TP29 custody received by actor of type

Domain:

E10 Transfer of Custody

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E10 Transfer of Custody, *P29 custody received by (received custody through)*, E39 Actor, *P2 has type*, E55 Type

Examples:

todo

In First Order Logic:

TP29(x,y) ⇒ E10(x)
TP29(x,y) ⇒ E55(y)
TP29(x,y) ⇔ (∃ z)[E39(z) ∧ P29(x,z) ∧ P2(z,y)]

TP30 transferred custody of physical thing of type

Domain:

E10 Transfer of Custody

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E10 Transfer of Custody, *P30 transferred custody of (custody transferred through)*, E18 Physical Thing, *P2 has type*, E55 Type

Examples:

borrowed object of type book for the exhibition

In First Order Logic:

TP30(x,y) ⇒ E10(x)
TP30(x,y) ⇒ E55(y)
TP30(x,y) ⇔ (∃ z)[E18(z) ∧ P30(x,z) ∧ P2(z,y)]

TP31 has modified physical thing of type

Domain:

E11 Modification

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E11 Modification, *P31 has modified (was modified by)*, E18 Physical Thing, *P2 has type*, E55 Type

Examples:

conservation work consolidated book boards

In First Order Logic:

TP31(x,y) ⇒ E11(x)
TP31(x,y) ⇒ E55(y)
TP31(x,y) ⇔ (∃ z)[E18(z) ∧ P31(x,z) ∧ P2(z,y)]

TP34 concerned physical thing of type

Domain:

E14 Condition Assessment

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E14 Condition Assessment, *P34 concerned (was assessed by)*, E18 Physical Thing, *P2 has type*, E55 Type

Examples:

assessed object of type book

In First Order Logic:

TP34(x,y) ⇒ E14(x)
TP34(x,y) ⇒ E55(y)
TP34(x,y) ⇔ (∃ z)[E18(z) ∧ P34(x,z) ∧ P2(z,y)]

TP35 has identified condition state of type

Domain:
E14 Condition Assessment

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E14 Condition Assessment, *P35 has identified (identified by)*, E3 Condition State, *P2 has type*, E55 Type

Examples:
has identified mould on the book

In First Order Logic:
TP35(x,y) ⇒ E14(x)
TP35(x,y) ⇒ E55(y)
TP35(x,y) ⇔ (∃ z)[E3(z) ∧ P35(x,z) ∧ P2(z,y)]

TP37 assigned identifier of type

Domain:
E15 Identifier Assignement

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E15 Identifier Assignement, *P37 assigned (was assigned by)*, E42 Identifier, *P2 has type*, E55 Type

Examples:
assigned an ISBN to the book

In First Order Logic:
TP37(x,y) ⇒ E15(x)
TP37(x,y) ⇒ E55(y)
TP37(x,y) ⇔ (∃ z)[E42(z) ∧ P37(x,z) ∧ P2(z,y)]

TP38 deassigned identifier of type

Domain:
E15 Identifier Assignement

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E15 Identifier Assignement, *P38 deassigned (was deassigned by)*, E42 Identifier, *P2 has type*, E55 Type

Examples:
deassigned the ISBN of the book

In First Order Logic:
TP38(x,y) ⇒ E15(x)
TP38(x,y) ⇒ E55(y)
TP38(x,y) ⇔ (∃ z)[E42(z) ∧ P38(x,z) ∧ P2(z,y)]

TP39 measured entity of type

Domain:
E16 Measurement

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E16 Measurement, *P39 measured (was measured by)*, E1 CRM Entity, *P2 has type*, E55 Type

Examples:
measured a book

In First Order Logic:
TP39(x,y) ⇒ E16(x)
TP39(x,y) ⇒ E55(y)
TP39(x,y) ⇔ (∃ z)[E1(z) ∧ P39(x,z) ∧ P2(z,y)]

TP40 observed dimension of type

Domain:
E16 Measurement

Range:

E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E16 Measurement, *P40 observed dimension (was observed in)*, E54 Dimension, *P2 has type*, E55 Type

Examples:
observed dimension of radius

In First Order Logic:
TP40(x,y) ⇒ E16(x)
TP40(x,y) ⇒ E55(y)
TP40(x,y) ⇔ (∃ z)[E54(z) ∧ P40(x,z) ∧ P2(z,y)]

TP41 classified entity of type

Domain:
E17 Type Assignment

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E17 Type Assignment, *P41 classified (was classified by)*, E1 CRM Entity, *P2 has type*, E55 Type

Examples:
classified a book

In First Order Logic:
TP41(x,y) ⇒ E17(x)
TP41(x,y) ⇒ E55(y)
TP41(x,y) ⇔ (∃ z)[E1(z) ∧ P41(x,z) ∧ P2(z,y)]

TP43 has dimension of type

Domain:
E70 Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E70 Thing, *P43 has dimension (is dimension of)*, E54 Dimension, *P2 has type*, E55 Type

Examples:

book has dimension of type radius (for semicircular books)

In First Order Logic:

TP43(x,y) ⇒ E70(x)
TP43(x,y) ⇒ E55(y)
TP43(x,y) ⇔ (∃ z)[E54(z) ∧ P43(x,z) ∧ P2(z,y)]

TP44 has condition of type

Domain:

E18 Physical Thing

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E18 Physical Thing, *P44 has condition (is condition of)*, E3 Condition State, *P2 has type*, E55 Type

Examples:

book has condition of type “tears”

In First Order Logic:

TP44(x,y) ⇒ E18(x)
TP44(x,y) ⇒ E55(y)
TP44(x,y) ⇔ (∃ z)[E3(z) ∧ P44(x,z) ∧ P2(z,y)]

TP46 is composed of physical thing of type

Domain:

E18 Physical Thing

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E18 Physical Thing, *P46 is composed of (forms part of)*, E18 Physical Thing, *P2 has type*, E55 Type

Examples:

binding is composed of boards

In First Order Logic:

TP46(x,y) ⇒ E18(x)
TP46(x,y) ⇒ E55(y)
TP46(x,y) ⇔ (∃ z)[E18(z) ∧ P46(x,z) ∧ P2(z,y)]

TP48 has preferred identifier of type

Domain:

E1 CRM Entity

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E1 CRM Entity, *P48 has preferred identifier (is preferred identifier of)*, E42 Identifier, *P2 has type*, E55 Type

Examples:

MS Sinai XX has preferred identifier Kamil XXX

In First Order Logic:

TP48(x,y) ⇒ E1(x)
TP48(x,y) ⇒ E55(y)
TP48(x,y) ⇔ (∃ z)[E42(z) ∧ P48(x,z) ∧ P2(z,y)]

TP49 has former or current keeper of type

Domain:

E18 Physical Thing

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E18 Physical Thing, *P49 has former or current keeper (is former or current keeper of)*, E39 Actor, *P2 has type*, E55 Type

Examples:

todo

In First Order Logic:

TP49(x,y) ⇒ E18(x)
TP49(x,y) ⇒ E55(y)
TP49(x,y) ⇔ (∃ z)[E39(z) ∧ P49(x,z) ∧ P2(z,y)]

TP50 has current keeper of type

Domain:

E18 Physical Thing

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E18 Physical Thing, *P50 has current keeper (is current keeper of)* , E39 Actor, *P2 has type*, E55 Type

Examples:

todo

In First Order Logic:

TP50(x,y) ⇒ E18(x)
TP50(x,y) ⇒ E55(y)
TP50(x,y) ⇔ (∃ z)[E39(z) ∧ P50(x,z) ∧ P2(z,y)]

TP51 has former or current owner of type

Domain:

E18 Physical Thing

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E18 Physical Thing, *P51 has former or current owner (is former or current owner of)*, E39 Actor, *P2 has type*, E55 Type

Examples:

todo

In First Order Logic:

TP51(x,y) ⇒ E18(x)
TP51(x,y) ⇒ E55(y)
TP51(x,y) ⇔ (∃ z)[E39(z) ∧ P51(x,z) ∧ P2(z,y)]

TP52 has current owner of type

Domain:
E18 Physical Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E18 Physical Thing, *P52 has current owner (is current owner of)*, E39 Actor, *P2 has type*, E55 Type

Examples:
todo

In First Order Logic:
TP52(x,y) ⇒ E18(x)
TP52(x,y) ⇒ E55(y)
TP52(x,y) ⇔ (∃ z)[E39(z) ∧ P52(x,z) ∧ P2(z,y)]

TP53 has former or current location of type

Domain:
E18 Physical Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E18 Physical Thing, *P53 has former or current location (is former or current location of)* , E53 Place, *P2 has type*, E55 Type

Examples:
book is located in a gallery space

In First Order Logic:
TP53(x,y) ⇒ E18(x)
TP53(x,y) ⇒ E55(y)
TP53(x,y) ⇔ (∃ z)[E53(z) ∧ P53(x,z) ∧ P2(z,y)]

TP54 has current permanent location of type

Domain:
E19 Physical Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E19 Physical Object, *P54 has current permanent location (is current permanent location of)*, E53 Place, *P2 has type*, E55 Type

Examples:
book is located in a gallery space

In First Order Logic:
TP54(x,y) ⇒ E19(x)
TP54(x,y) ⇒ E55(y)
TP54(x,y) ⇔ (∃ z)[E53(z) ∧ P54(x,z) ∧ P2(z,y)]

TP55 has current location of type

Domain:
E19 Physical Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E19 Physical Object, *P55 has current location (currently holds)* , E53 Place, *P2 has type*, E55 Type

Examples:
book is located in a gallery space

In First Order Logic:
TP55(x,y) ⇒ E19(x)
TP55(x,y) ⇒ E55(y)
TP55(x,y) ⇔ (∃ z)[E53(z) ∧ P55(x,z) ∧ P2(z,y)]

TP56 bears feature of type

Domain:
E19 Physical Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E19 Physical Object, *P56 bears feature (is found on)*, E26 Physical Feature, *P2 has type*, E55 Type

Examples:
cover bears feature of type blind tooling

In First Order Logic:
TP56(x,y) ⇒ E19(x)
TP56(x,y) ⇒ E55(y)
TP56(x,y) ⇔ (∃ z)[E26(z) ∧ P56(x,z) ∧ P2(z,y)]

TP59 has section of type

Domain:
E18 Physical Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E18 Physical Thing, *P59 has section (is located on or within)*, E53 Place, *P2 has type*, E55 Type

Examples:
book spine has section of type “panels”

In First Order Logic:
TP59(x,y) ⇒ E18(x)
TP59(x,y) ⇒ E55(y)
TP59(x,y) ⇔ (∃ z)[E53(z) ∧ P59(x,z) ∧ P2(z,y)]

TP62 depicts entity of type

Domain:
E24 Physical Human-Made Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E24 Physical Human-Made Thing, *P62 depicts (is depicted by)* , E1 CRM Entity, *P2 has type*, E55 Type

Examples:
painting depicts flowers

In First Order Logic:
TP62(x,y) ⇒ E24(x)
TP62(x,y) ⇒ E55(y)
TP62(x,y) ⇔ (∃ z)[E1(z) ∧ P62(x,z) ∧ P2(z,y)]

TP65 shows visual item of type

Domain:
E24 Physical Human-Made Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E24 Physical Human-Made Thing, *P65 shows visual item (is shown by)*, E36 Visual Item, *P2 has type*, E55 Type

Examples:
my coin shows visual item of type portrait

In First Order Logic:
TP65(x,y) ⇒ E24(x)
TP65(x,y) ⇒ E55(y)
TP65(x,y) ⇔ (∃ z)[E36(z) ∧ P65(x,z) ∧ P2(z,y)]

TP67 refers to entity of type

Domain:
E89 Propositional Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E89 Propositional Object, *P67 refers to (is referred to by)*, E1 CRM Entity, *P2 has type*, E55 Type

Examples:
text refers to events of type war

In First Order Logic:
TP67(x,y) ⇒ E89(x)
TP67(x,y) ⇒ E55(y)
TP67(x,y) ⇔ (∃ z)[E1(z) ∧ P67(x,z) ∧ P2(z,y)]

TP69 has association with design or procedure of type

Domain:
E29 Design or Procedure

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E29 Design or Procedure, *P69 has association with (is associated with)*, E29 Design or Procedure, *P2 has type*, E55 Type

Examples:
cleaning instructions for the book include cleaning instructions for textblocks

In First Order Logic:
TP69(x,y) ⇒ E29(x)
TP69(x,y) ⇒ E55(y)
TP69(x,y) ⇔ (∃ z)[E29(z) ∧ P69(x,z) ∧ P2(z,y)]

TP70 documents entity of type

Domain:
E31 Document

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E31 Document, *P70 documents (is documented in)*, E1 CRM Entity, *P2 has type*, E55 Type

Examples:

todo

In First Order Logic:

TP70(x,y) ⇒ E31(x)
TP70(x,y) ⇒ E55(y)
TP70(x,y) ⇔ (∃ z)[E1(z) ∧ P70(x,z) ∧ P2(z,y)]

TP71 lists entity of type

Domain:

E32 Authority Document

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E32 Authority Document, *P71 lists (is listed in)*, E1 CRM Entity, *P2 has type*, E55 Type

Examples:

todo

In First Order Logic:

TP71(x,y) ⇒ E32(x)
TP71(x,y) ⇒ E55(y)
TP71(x,y) ⇔ (∃ z)[E1(z) ∧ P71(x,z) ∧ P2(z,y)]

TP73 has translation linguistic object of type

Domain:

E33 Linguistic Object

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E33 Linguistic Object, *P73 has translation*, E33 Linguistic Object, *P2 has type*, E55 Type

Examples:

my translation is translation of welsh poetry

In First Order Logic:

TP73(x,y) ⇒ E33(x)
TP73(x,y) ⇒ E55(y)
TP73(x,y) ⇔ (∃ z)[E33(z) ∧ P73(x,z) ∧ P2(z,y)]

TP74 has current of former residence of type

Domain:
E39 Actor

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E39 Actor, *P74 has current or former residence (is current or former residence of)*, E53 Place, *P2 has type*, E55 Type

Examples:
my friend lives in a flat

In First Order Logic:
TP74(x,y) ⇒ E39(x)
TP74(x,y) ⇒ E55(y)
TP74(x,y) ⇔ (∃ z)[E53(z) ∧ P74(x,z) ∧ P2(z,y)]

TP75 possesses right of type

Domain:
E39 Actor

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E39 Actor, *P75 possesses (is possessed by)*, E30 Right, *P2 has type*, E55 Type

Examples:
the author of the book possesses right of type “copyright”

In First Order Logic:
TP75(x,y) ⇒ E39(x)
TP75(x,y) ⇒ E55(y)
TP75(x,y) ⇔ (∃ z)[E30(z) ∧ P75(x,z) ∧ P2(z,y)]

TP76 has contact point of type

Domain:
E39 Actor

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E39 Actor, *P76 has contact point (provides access to)* , E41 Appellation, *P2 has type*, E55 Type

Examples:
my friend has contact point of type email

In First Order Logic:
TP76(x,y) ⇒ E39(x)
TP76(x,y) ⇒ E55(y)
TP76(x,y) ⇔ (∃ z)[E41(z) ∧ P76(x,z) ∧ P2(z,y)]

TP79 beginning is qualified by note of type

Domain:
E52 Time-Span

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E52 Time-Span, *P79 beginning is qualified by*, E62 String, *P2 has type*, E55 Type

Examples:
todo

In First Order Logic:
TP79(x,y) ⇒ E52(x)
TP79(x,y) ⇒ E55(y)
TP79(x,y) ⇔ (∃ z)[E62(z) ∧ P79(x,z) ∧ P2(z,y)]

TP80 end is qualified by note of type

Domain:
E52 Time-Span

Range:

E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E52 Time-Span, *P80 end is qualified by*, E62 String, *P2 has type*, E55 Type

Examples:
todo

In First Order Logic:
TP80(x,y) ⇒ E52(x)
TP80(x,y) ⇒ E55(y)
TP80(x,y) ⇔ (∃ z)[E62(z) ∧ P80(x,z) ∧ P2(z,y)]

TP89 falls within place of type

Domain:
E53 Place

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E53 Place, *P89 falls within (contains)*, E53 Place, *P2 has type*, E55 Type

Examples:
the place of my house is on an island

In First Order Logic:
TP89(x,y) ⇒ E53(x)
TP89(x,y) ⇒ E55(y)
TP89(x,y) ⇔ (∃ z)[E53(z) ∧ P89(x,z) ∧ P2(z,y)]

TP92 brought into existence persistent item of type

Domain:
E63 Beginning of Existence

Range:
E55 Type

Superproperty of:
todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E63 Beginning of Existence, *P92 brought into existence (was brought into existence by)*, E77 Persistent Item, *P2 has type*, E55 Type

Examples:

binding work produced an inboard binding

In First Order Logic:

TP92(x,y) ⇒ E63(x)
TP92(x,y) ⇒ E55(y)
TP92(x,y) ⇔ (∃ z)[E77(z) ∧ P92(x,z) ∧ P2(z,y)]

TP93 took out of existence persistent item of type

Domain:

E64 End of Existence

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E64 End of Existence, *P93 took out of existence (was taken out of existence by)*, E77 Persistent Item, *P2 has type*, E55 Type

Examples:

volcano eruption destroyed houses

In First Order Logic:

TP93(x,y) ⇒ E64(x)
TP93(x,y) ⇒ E55(y)
TP93(x,y) ⇔ (∃ z)[E77(z) ∧ P93(x,z) ∧ P2(z,y)]

TP94 has created conceptual object of type

Domain:

E65 Creation

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:
This property is a shortcut of the fully developed path: E65 Creation, *P94 has created (was created by)*, E28 Conceptual Object, *P2 has type*, E55 Type

Examples:
iliad's composition created epic poem

In First Order Logic:
TP94(x,y) ⇒ E65(x)
TP94(x,y) ⇒ E55(y)
TP94(x,y) ⇔ (∃ z)[E28(z) ∧ P94(x,z) ∧ P2(z,y)]

TP95 has formed group of type

Domain:
E66 Formation

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E66 Formation, *P95 has formed (was formed by)*, E74 Group, *P2 has type*, E55 Type

Examples:
elections has formed group of type government

In First Order Logic:
TP95(x,y) ⇒ E66(x)
TP95(x,y) ⇒ E55(y)
TP95(x,y) ⇔ (∃ z)[E74(z) ∧ P95(x,z) ∧ P2(z,y)]

TP96 by mother of type

Domain:
E67 Birth

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E67 Birth, *P96 by mother (gave birth)*, E21 Person, *P2 has type*, E55 Type

Examples:

todo

In First Order Logic:

TP96(x,y) ⇒ E67(x)
TP96(x,y) ⇒ E55(y)
TP96(x,y) ⇔ (∃ z)[E21(z) ∧ P96(x,z) ∧ P2(z,y)]

TP97 from father of type

Domain:

E67 Birth

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E67 Birth, *P97 from father (was father for)*, E21 Person, *P2 has type*, E55 Type

Examples:

todo

In First Order Logic:

TP97(x,y) ⇒ E67(x)
TP97(x,y) ⇒ E55(y)
TP97(x,y) ⇔ (∃ z)[E21(z) ∧ P97(x,z) ∧ P2(z,y)]

TP98 brought into life person of type

Domain:

E67 Birth

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E67 Birth, *P98 brought into life (was born)*, E21 Person, *P2 has type*, E55 Type

Examples:

todo

In First Order Logic:

TP98(x,y) ⇒ E67(x)
TP98(x,y) ⇒ E55(y)
TP98(x,y) ⇔ (∃ z)[E21(z) ∧ P98(x,z) ∧ P2(z,y)]

TP99 dissolved group of type

Domain:
E68 Dissolution

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E68 Dissolution, *P99 dissolved (was dissolved by)*, E74 Group, *P2 has type*, E55 Type

Examples:
civil war dissolved political parties

In First Order Logic:
TP99(x,y) ⇒ E68(x)
TP99(x,y) ⇒ E55(y)
TP99(x,y) ⇔ (∃ z)[E74(z) ∧ P99(x,z) ∧ P2(z,y)]

TP100 was death of person of type

Domain:
E69 Death

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E69 Death, *P100 was death of (died in)*, E21 Person, *P2 has type*, E55 Type

Examples:
todo

In First Order Logic:
TP100(x,y) ⇒ E69(x)
TP100(x,y) ⇒ E55(y)
TP100(x,y) ⇔ (∃ z)[E21(z) ∧ P100(x,z) ∧ P2(z,y)]

TP102 has title of type

Domain:
E71 Human-Made Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E71 Human-Made Thing, *P102 has title (is title of)*, E35 Title, *P2 has type*, E55 Type

Examples:
text has a chapter title

In First Order Logic:
TP102(x,y) ⇒ E71(x)
TP102(x,y) ⇒ E55(y)
TP102(x,y) ⇔ (∃ z)[E35(z) ∧ P102(x,z) ∧ P2(z,y)]

TP104 is subject to right of type

Domain:
E72 Legal Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E72 Legal Object, *P104 is subject to (applies to)*, E30 Right, *P2 has type*, E55 Type

Examples:
this book is in copyright

In First Order Logic:
TP104(x,y) ⇒ E72(x)
TP104(x,y) ⇒ E55(y)
TP104(x,y) ⇔ (∃ z)[E30(z) ∧ P104(x,z) ∧ P2(z,y)]

TP105 right held by actor of type

Domain:
E72 Legal Object

Range:

E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E72 Legal Object, *P105 right held by (has right on)*, E39 Actor, *P2 has type*, E55 Type

Examples:
todo

In First Order Logic:
TP105(x,y) ⇒ E72(x)
TP105(x,y) ⇒ E55(y)
TP105(x,y) ⇔ (∃ z)[E39(z) ∧ P105(x,z) ∧ P2(z,y)]

TP106 is composed of symbolic object of type

Domain:
E90 Symbolic Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E90 Symbolic Object, *P106 is composed of (forms part of)*, E90 Symbolic Object, *P2 has type*, E55 Type

Examples:
CocaCola logo is composed of symbols of type “letter”

In First Order Logic:
TP106(x,y) ⇒ E90(x)
TP106(x,y) ⇒ E55(y)
TP106(x,y) ⇔ (∃ z)[E90(z) ∧ P106(x,z) ∧ P2(z,y)]

TP107 has current or former member of type

Domain:
E74 Group

Range:
E55 Type

Superproperty of:
todo

Subproperty of:

todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E74 Group, *P107 has current or former member (is current or former member of)*, E39 Actor, *P2 has type*, E55 Type

Examples:
todo

In First Order Logic:
TP107(x,y) ⇒ E74(x)
TP107(x,y) ⇒ E55(y)
TP107(x,y) ⇔ (∃ z)[E39(z) ∧ P107(x,z) ∧ P2(z,y)]

TP108 has produced physical human-made thing of type

Domain:
E12 Production

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E12 Production, *P108 has produced (was produced by)*, E24 Physical Human-Made Thing, *P2 has type*, E55 Type

Examples:
binding work produced an inboard binding

In First Order Logic:
TP108(x,y) ⇒ E12(x)
TP108(x,y) ⇒ E55(y)
TP108(x,y) ⇔ (∃ z)[E24(z) ∧ P108(x,z) ∧ P2(z,y)]

TP109 has current or former curator of type

Domain:
E78 Curated Holding

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E78 Curated Holding, *P109 has current or former curator (is current or former curator of)*, E39 Actor, *P2 has type*, E55 Type

Examples:

todo

In First Order Logic:

TP109(x,y) ⇒ E78(x)
TP109(x,y) ⇒ E55(y)
TP109(x,y) ⇔ (∃ z)[E39(z) ∧ P109(x,z) ∧ P2(z,y)]

TP110 augmented physical human-made thing of type

Domain:

E79 Part Addition

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E79 Part Addition, *P110 augmented (was augmented by)*, E24 Physical Human-Made Thing, *P2 has type*, E55 Type

Examples:

endleaf addition augmented an inboard binding

In First Order Logic:

TP110(x,y) ⇒ E79(x)
TP110(x,y) ⇒ E55(y)
TP110(x,y) ⇔ (∃ z)[E24(z) ∧ P110(x,z) ∧ P2(z,y)]

TP111 added physical thing of type

Domain:

E79 Part Addition

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E79 Part Addition, *P111 added (was added by)*, E18 Physical Thing, *P2 has type*, E55 Type

Examples:

rebinding added blind tooling decoration to the book

In First Order Logic:

TP111(x,y) ⇒ E79(x)
TP111(x,y) ⇒ E55(y)
TP111(x,y) ⇔ (∃ z)[E18(z) ∧ P111(x,z) ∧ P2(z,y)]

TP112 diminished physical human-made thing of type

Domain:

E80 Part Removal

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E80 Part Removal, *P112 diminished (was diminished by)*, E24 Physical Human-Made Thing, *P2 has type*, E55 Type

Examples:

endleaf removal diminished an inboard binding

In First Order Logic:

TP112(x,y) ⇒ E80(x)
TP112(x,y) ⇒ E55(y)
TP112(x,y) ⇔ (∃ z)[E24(z) ∧ P112(x,z) ∧ P2(z,y)]

TP113 removed physical thing of type

Domain:

E80 Part Removal

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E80 Part Removal, *P113 removed (was removed by)*, E18 Physical Thing, *P2 has type*, E55 Type

Examples:

rebinding removed boards from the book

In First Order Logic:

TP113(x,y) ⇒ E80(x)
TP113(x,y) ⇒ E55(y)
TP113(x,y) ⇔ (∃ z)[E18(z) ∧ P113(x,z) ∧ P2(z,y)]

TP121 overlaps with place of type

Domain:

E53 Place

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E53 Place, *P121 overlaps with*, E53 Place, *P2 has type*, E55 Type

Examples:

my village overlaps with a river

In First Order Logic:

TP121(x,y) ⇒ E53(x)
TP121(x,y) ⇒ E55(y)
TP121(x,y) ⇔ (∃ z)[E53(z) ∧ P121(x,z) ∧ P2(z,y)]

TP122 borders with place of type

Domain:

E53 Place

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E53 Place, *P122 borders with*, E53 Place, *P2 has type*, E55 Type

Examples:

my village borders with a river

In First Order Logic:

TP122(x,y) ⇒ E53(x)
TP122(x,y) ⇒ E55(y)
TP122(x,y) ⇔ (∃ z)[E53(z) ∧ P122(x,z) ∧ P2(z,y)]

TP123 resulted in persistent item of type

Domain:
E81 Transformation

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E81 Transformation, *P123 resulted in (resulted from)*, E77 Persistent Item, *P2 has type*, E55 Type

Examples:
the church refurbishment resulted in accommodation

In First Order Logic:
TP123(x,y) ⇒ E81(x)
TP123(x,y) ⇒ E55(y)
TP123(x,y) ⇔ (∃ z)[E77(z) ∧ P123(x,z) ∧ P2(z,y)]

TP124 transformed persistent item of type

Domain:
E81 Transformation

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E81 Transformation, *P124 transformed (was transformed by)*, E77 Persistent Item, *P2 has type*, E55 Type

Examples:
refurbishment transformed building of type church

In First Order Logic:
TP124(x,y) ⇒ E81(x)
TP124(x,y) ⇒ E55(y)
TP124(x,y) ⇔ (∃ z)[E77(z) ∧ P124(x,z) ∧ P2(z,y)]

TP128 carries symbolic object of type

Domain:
E18 Physical Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E18 Physical Thing, *P128 carries (is carried by)*, E90 Symbolic Object, *P2 has type*, E55 Type

Examples:
my book of poetry

In First Order Logic:
TP128(x,y) ⇒ E18(x)
TP128(x,y) ⇒ E55(y)
TP128(x,y) ⇔ (∃ z)[E90(z) ∧ P128(x,z) ∧ P2(z,y)]

TP129 is about entity of type

Domain:
E89 Propositional Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E89 Propositional Object, *P129 is about (is subject of)*, E1 CRM Entity, *P2 has type*, E55 Type

Examples:
todo

In First Order Logic:
TP129(x,y) ⇒ E89(x)
TP129(x,y) ⇒ E55(y)
TP129(x,y) ⇔ (∃ z)[E1(z) ∧ P129(x,z) ∧ P2(z,y)]

TP130 shows features of thing of type

Domain:
E70 Thing

Range:

E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E70 Thing, *P130 shows features of (features are also found on)*, E70 Thing, *P2 has type*, E55 Type

Examples:
todo

In First Order Logic:
TP130(x,y) ⇒ E70(x)
TP130(x,y) ⇒ E55(y)
TP130(x,y) ⇔ (∃ z)[E70(z) ∧ P130(x,z) ∧ P2(z,y)]

TP134 continued activity of type

Domain:
E7 Activity

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E7 Activity, *P134 continued (was continued by)*, E7 Activity, *P2 has type*, E55 Type

Examples:
todo

In First Order Logic:
TP134(x,y) ⇒ E7(x)
TP134(x,y) ⇒ E55(y)
TP134(x,y) ⇔ (∃ z)[E7(z) ∧ P134(x,z) ∧ P2(z,y)]

TP138 represents entity of type

Domain:
E36 Visual Item

Range:
E55 Type

Superproperty of:
todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E36 Visual Item, *P138 represents (has representation)*, E1 CRM Entity, *P2 has type*, E55 Type

Examples:

image represents manuscript text

In First Order Logic:

TP138(x,y) ⇒ E36(x)
TP138(x,y) ⇒ E55(y)
TP138(x,y) ⇔ (∃ z)[E1(z) ∧ P138(x,z) ∧ P2(z,y)]

TP139 has alternative form of type

Domain:

E41 Appellation

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E41 Appellation, *P139 has alternative form*, E41 Appellation, *P2 has type*, E55 Type

Examples:

Martin Doerr has alternative form of type alternate spelling

In First Order Logic:

TP139(x,y) ⇒ E41(x)
TP139(x,y) ⇒ E55(y)
TP139(x,y) ⇔ (∃ z)[E41(z) ∧ P139(x,z) ∧ P2(z,y)]

TP140 assigned attribute to entity of type

Domain:

E13 Attribute Assignment

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E13 Attribute Assignment, *P140 assigned attribute to (was attributed by)*, E1 CRM Entity, *P2 has type*, E55 Type

Examples:

assessed object of type book

In First Order Logic:

TP140(x,y) ⇒ E13(x)
TP140(x,y) ⇒ E55(y)
TP140(x,y) ⇔ (∃ z)[E1(z) ∧ P140(x,z) ∧ P2(z,y)]

TP141 assigned entity of type

Domain:

E13 Attribute Assignement

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E13 Attribute Assignement, *P141 assigned (was assigned by)*, E1 CRM Entity, *P2 has type*, E55 Type

Examples:

assessed condition

In First Order Logic:

TP141(x,y) ⇒ E13(x)
TP141(x,y) ⇒ E55(y)
TP141(x,y) ⇔ (∃ z)[E1(z) ∧ P141(x,z) ∧ P2(z,y)]

TP142 used constituent of type

Domain:

E15 Identifier Assignment

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E15 Identifier Assignment, *P142 used constituent (was used in)*, E90 Symbolic Object, *P2 has type*, E55 Type

Examples:

todo

In First Order Logic:

TP142(x,y) ⇒ E15(x)
TP142(x,y) ⇒ E55(y)
TP142(x,y) ⇔ (∃ z)[E90(z) ∧ P142(x,z) ∧ P2(z,y)]

TP143 joined actor of type

Domain:

E85 Joining

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E85 Joining, *P143 joined (was joined by)*, E39 Actor, *P2 has type*, E55 Type

Examples:

todo

In First Order Logic:

TP143(x,y) ⇒ E85(x)
TP143(x,y) ⇒ E55(y)
TP143(x,y) ⇔ (∃ z)[E39(z) ∧ P143(x,z) ∧ P2(z,y)]

TP144 joined with group of type

Domain:

E85 Joining

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E85 Joining, *P144 joined with (gained member by)*, E74 Group, *P2 has type*, E55 Type

Examples:

footballer joined a football team

In First Order Logic:

TP144(x,y) ⇒ E85(x)
TP144(x,y) ⇒ E55(y)
TP144(x,y) ⇔ (∃ z)[E74(z) ∧ P144(x,z) ∧ P2(z,y)]

TP145 separated actor of type

Domain:
E86 Leaving

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E86 Leaving, *P145 separated (left by)*, E39 Actor, *P2 has type*, E55 Type

Examples:
todo

In First Order Logic:
TP145(x,y) ⇒ E86(x)
TP145(x,y) ⇒ E55(y)
TP145(x,y) ⇔ (∃ z)[E39(z) ∧ P145(x,z) ∧ P2(z,y)]

TP146 separated from group of type

Domain:
E86 Leaving

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E86 Leaving, *P146 separated from (lost member by)*, E74 Group, *P2 has type*, E55 Type

Examples:
footballer separated from a football team

In First Order Logic:
TP146(x,y) ⇒ E86(x)
TP146(x,y) ⇒ E55(y)
TP146(x,y) ⇔ (∃ z)[E74(z) ∧ P146(x,z) ∧ P2(z,y)]

TP147 curated curated holding of type

Domain:
E87 Curation Activity

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E87 Curation Activity, *P147 curated (was curated by)*, E78 Curated Holding, *P2 has type*, E55 Type

Examples:
curated collection of pottery

In First Order Logic:
TP147(x,y) ⇒ E87(x)
TP147(x,y) ⇒ E55(y)
TP147(x,y) ⇔ (∃ z)[E78(z) ∧ P147(x,z) ∧ P2(z,y)]

TP148 has component of type

Domain:
E89 Propositional Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E89 Propositional Object, *P148 has component (is component of)*, E89 Propositional Object, *P2 has type*, E55 Type

Examples:
my thesis has component of type appendix

In First Order Logic:
TP148(x,y) ⇒ E89(x)
TP148(x,y) ⇒ E55(y)
TP148(x,y) ⇔ (∃ z)[E89(z) ∧ P148(x,z) ∧ P2(z,y)]

TP151 was formed from group of type

Domain:
E66 Formation

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E66 Formation, *P151 was formed from (participated in)*, E74 Group, *P2 has type*, E55 Type

Examples:
todo

In First Order Logic:
TP151(x,y) ⇒ E66(x)
TP151(x,y) ⇒ E55(y)
TP151(x,y) ⇔ (∃ z)[E74(z) ∧ P151(x,z) ∧ P2(z,y)]

TP152 has parent of type

Domain:
E21 Person

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E21 Person, *P152 has parent(is parent of)*, E21 Person, *P2 has type*, E55 Type

Examples:
todo

In First Order Logic:
TP152(x,y) ⇒ E21(x)
TP152(x,y) ⇒ E55(y)
TP152(x,y) ⇔ (∃ z)[E21(z) ∧ P152(x,z) ∧ P2(z,y)]

TP157 is at rest relative to physical thing of type

Domain:
E53 Place

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E53 Place, *P157 is at rest relative to (provides reference space for)*, E18 Physical Thing, *P2 has type*, E55 Type

Examples:
Nelson's place of death is at rest relative to a ship

In First Order Logic:
TP157(x,y) ⇒ E53(x)
TP157(x,y) ⇒ E55(y)
TP157(x,y) ⇔ (∃ z)[E18(z) ∧ P157(x,z) ∧ P2(z,y)]

TP165 incorporates symbolic object of type

Domain:
E73 Information Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E73 Information Object, *P165 incorporates (is incorporated in)*, E90 Symbolic Object, *P2 has type*, E55 Type

Examples:
Iliad incorporates symbolic objects of type "letters"

In First Order Logic:
TP165(x,y) ⇒ E73(x)
TP165(x,y) ⇒ E55(y)
TP165(x,y) ⇔ (∃ z)[E90(z) ∧ P165(x,z) ∧ P2(z,y)]

TP179 had sales price of monetary amount of type

Domain:
E96 Purchase

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:

todo

Scope note:
This property is a shortcut of the fully developed path: E96 Purchase, *P179 had sales price (was sales price of)*, E97 Monetary Amount, *P2 has type*, E55 Type

Examples:
book sold at auction starter price

In First Order Logic:
TP179(x,y) ⇒ E96(x)
TP179(x,y) ⇒ E55(y)
TP179(x,y) ⇔ (∃ z)[E97(z) ∧ P179(x,z) ∧ P2(z,y)]

TP187 has production plan of type

Domain:
E99 Product Type

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
This property is a shortcut of the fully developed path: E99 Product Type, *P187 has production plan (is production plan for)*, E29 Design or Procedure, *P2 has type*, E55 Type

Examples:
volswagen beetle production has electrics plan

In First Order Logic:
TP187(x,y) ⇒ E99(x)
TP187(x,y) ⇒ E55(y)
TP187(x,y) ⇔ (∃ z)[E29(z) ∧ P187(x,z) ∧ P2(z,y)]

TP188 requires production tool of type

Domain:
E99 Product Type

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:

This property is a shortcut of the fully developed path: E99 Product Type, *P188 requires production tool (is production tool for)*, E19 Physical Object, *P2 has type*, E55 Type

Examples:

volkswagen beetle production requires metal press

In First Order Logic:

TP188(x,y) ⇒ E99(x)
TP188(x,y) ⇒ E55(y)
TP188(x,y) ⇔ (∃ z)[E19(z) ∧ P188(x,z) ∧ P2(z,y)]

TP190 has symbolic content of type

Domain:

E90 Symbolic Object

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

This property is a shortcut of the fully developed path: E90 Symbolic Object, *P190 has symbolic content*, E62 String, *P2 has type*, E55 Type

Examples:

todo

In First Order Logic:

TP190(x,y) ⇒ E90(x)
TP190(x,y) ⇒ E55(y)
TP190(x,y) ⇔ (∃ z)[E62(z) ∧ P190(x,z) ∧ P2(z,y)]

NTP1 is not identified by appellation type

Domain:

E1 CRM Entity

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

scope note goes here

Examples:

book is not identified by ISBN (it does not have an ISBN number)

In First Order Logic:

NTP1(x,y) ⇒ E1(x)
NTP1(x,y) ⇒ E55(y)

NTP2 does not have type

Domain:

E1 CRM Entity

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

scope note goes here

Examples:

book is not of binding type “inboard binding”

In First Order Logic:

NTP2(x,y) ⇒ E1(x)
NTP2(x,y) ⇒ E55(y)

NTP3 does not have note of type

Domain:

E1 CRM Entity

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

scope note goes here

Examples:

todo

In First Order Logic:

NTP3(x,y) ⇒ E1(x)
NTP3(x,y) ⇒ E55(y)

NTP4 does not have time-span of type

Domain:

E2 Temporal Entity

Range:

E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP4(x,y) ⇒ E2(x)
NTP4(x,y) ⇒ E55(y)

NTP5 does not consist of condition state of type

Domain:
E3 Condition State

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
corroded condition of metal object does not consist of pitting

In First Order Logic:
NTP5(x,y) ⇒ E3(x)
NTP5(x,y) ⇒ E55(y)

NTP7 did not take place at place of type

Domain:
E4 Period

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
battle did not take place at a city

In First Order Logic:
NTP7(x,y) ⇒ E4(x)
NTP7(x,y) ⇒ E55(y)

NTP8 did not take place on or within physical thing of type

Domain:
E4 Period

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
Nelson did not die on a coach

In First Order Logic:
NTP8(x,y) ⇒ E4(x)
NTP8(x,y) ⇒ E55(y)

NTP11 did not have participant of type

Domain:
E5 Event

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP11(x,y) ⇒ E5(x)
NTP11(x,y) ⇒ E55(y)

NTP12 occurred not in the presence of persistent item of type

Domain:
E5 Event

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
Kennedy was assassinated not on his bike

In First Order Logic:
NTP12(x,y) ⇒ E5(x)
NTP12(x,y) ⇒ E55(y)

NTP13 did not destroy physical thing of type

Domain:
E6 Destruction

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
volcano eruption did not destroy villas

In First Order Logic:
NTP13(x,y) ⇒ E6(x)
NTP13(x,y) ⇒ E55(y)

NTP14 was not carried out by actor of type

Domain:
E7 Activity

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP14(x,y) ⇒ E7(x)
NTP14(x,y) ⇒ E55(y)

NTP15 was not influenced by entity of type

Domain:
E7 Activity

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
production was not influenced by reports of type “market predictions”

In First Order Logic:
NTP15(x,y) ⇒ E7(x)
NTP15(x,y) ⇒ E55(y)

NTP17 was not motivated by entity of type

Domain:
E7 Activity

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:

conservation work was not motivated by activity of type “exhibition”

In First Order Logic:

NTP17(x,y) ⇒ E7(x)
NTP17(x,y) ⇒ E55(y)

NTP20 did not have specific purpose of event of type

Domain:

E7 Activity

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

scope note goes here

Examples:

todo

In First Order Logic:

NTP20(x,y) ⇒ E7(x)
NTP20(x,y) ⇒ E55(y)

NTP21 did not have general purpose

Domain:

E7 Activity

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

scope note goes here

Examples:

conservation work did not have purpose to restore (i.e. only to consolidate)

In First Order Logic:

NTP21(x,y) ⇒ E7(x)
NTP21(x,y) ⇒ E55(y)

NTP22 did not transfer title to actor of type

Domain:

E8 Acquisition

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP22(x,y) ⇒ E8(x)
NTP22(x,y) ⇒ E55(y)

NTP23 did not transfer title from actor of type

Domain:
E8 Acquisition

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP23(x,y) ⇒ E8(x)
NTP23(x,y) ⇒ E55(y)

NTP24 did not transfer title of physical thing of type

Domain:
E8 Acquisition

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:

todo

Scope note:
scope note goes here

Examples:
purchase did not buy objects of type musical instrument

In First Order Logic:
NTP24(x,y) ⇒ E8(x)
NTP24(x,y) ⇒ E55(y)

NTP25 did not move physical object of type

Domain:
E9 Move

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
shipment does not contain hazardous materials

In First Order Logic:
NTP25(x,y) ⇒ E9(x)
NTP25(x,y) ⇒ E55(y)

NTP26 did not move to place of type

Domain:
E9 Move

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
collection did not move to place of type store room

In First Order Logic:

NTP26(x,y) ⇒ E9(x)
NTP26(x,y) ⇒ E55(y)

NTP27 did not move from place of type

Domain:
E9 Move

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
collection did not move from a place of type gallery

In First Order Logic:
NTP27(x,y) ⇒ E9(x)
NTP27(x,y) ⇒ E55(y)

NTP28 custody was not surrendered by actor of type

Domain:
E10 Transfer of Custody

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP28(x,y) ⇒ E10(x)
NTP28(x,y) ⇒ E55(y)

NTP29 custody was not received by actor of type

Domain:
E10 Transfer of Custody

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP29(x,y) ⇒ E10(x)
NTP29(x,y) ⇒ E55(y)

NTP30 did not transfer custody of physical thing of type

Domain:
E10 Transfer of Custody

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
did not borrow object of type book for the exhibition

In First Order Logic:
NTP30(x,y) ⇒ E10(x)
NTP30(x,y) ⇒ E55(y)

NTP31 has not modified physical thing of type

Domain:
E11 Modification

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:

scope note goes here

Examples:
conservation work did not affect leather cover

In First Order Logic:
NTP31(x,y) ⇒ E11(x)
NTP31(x,y) ⇒ E55(y)

NTP32 did not use general technique

Domain:
E7 Activity

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
the binding did not use stitching technique

In First Order Logic:
NTP32(x,y) ⇒ E7(x)
NTP32(x,y) ⇒ E55(y)

NTP34 did not concern physical thing of type

Domain:
E14 Condition Assessment

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
did not assess object of type book

In First Order Logic:
NTP34(x,y) ⇒ E14(x)
NTP34(x,y) ⇒ E55(y)

NTP35 has not identified condition state of type

Domain:
E14 Condition Assessment

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
has not identified mould on the book

In First Order Logic:
NTP35(x,y) ⇒ E14(x)
NTP35(x,y) ⇒ E55(y)

NTP37 did not assign identifier of type

Domain:
E15 Identifier Assignement

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
did not assign ISBN to the book

In First Order Logic:
NTP37(x,y) ⇒ E15(x)
NTP37(x,y) ⇒ E55(y)

NTP38 did not deassign identifier of type

Domain:
E15 Identifier Assignement

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
did not deassign ISBN

In First Order Logic:
NTP38(x,y) ⇒ E15(x)
NTP38(x,y) ⇒ E55(y)

NTP39 did not measure entity of type

Domain:
E16 Measurement

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
did not measure a book

In First Order Logic:
NTP39(x,y) ⇒ E16(x)
NTP39(x,y) ⇒ E55(y)

NTP40 did not observe dimension of type

Domain:
E16 Measurement

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:

did not observe dimension of radius

In First Order Logic:

NTP40(x,y) ⇒ E16(x)
NTP40(x,y) ⇒ E55(y)

NTP41 did not classify entity of type

Domain:

E17 Type Assignment

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

scope note goes here

Examples:

did not classify a book

In First Order Logic:

NTP41(x,y) ⇒ E17(x)
NTP41(x,y) ⇒ E55(y)

NTP42 did not assign type

Domain:

E17 Type Assignment

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

scope note goes here

Examples:

did not classify the binding as stitched

In First Order Logic:

NTP42(x,y) ⇒ E17(x)
NTP42(x,y) ⇒ E55(y)

NTP43 does not have dimension of type

Domain:

E70 Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
book does not have a radius

In First Order Logic:
NTP43(x,y) ⇒ E70(x)
NTP43(x,y) ⇒ E55(y)

NTP44 does not have condition of type

Domain:
E18 Physical Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
book does not have tears

In First Order Logic:
NTP44(x,y) ⇒ E18(x)
NTP44(x,y) ⇒ E55(y)

NTP45 does not consist of material

Domain:
E18 Physical Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:

todo

Scope note:
scope note goes here

Examples:
book is not made of gold leaf

In First Order Logic:
NTP45(x,y) ⇒ E18(x)
NTP45(x,y) ⇒ E55(y)

NTP46 is not composed of physical thing of type

Domain:
E18 Physical Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
binding is not composed of boards

In First Order Logic:
NTP46(x,y) ⇒ E18(x)
NTP46(x,y) ⇒ E55(y)

NTP48 does not have preferred identifier of type

Domain:
E1 CRM Entity

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
MS Sinai XX does not have preferred identifier by Kamil

In First Order Logic:

NTP48(x,y) ⇒ E1(x)
NTP48(x,y) ⇒ E55(y)

NTP49 does not have former or current keeper of type

Domain:
E18 Physical Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP49(x,y) ⇒ E18(x)
NTP49(x,y) ⇒ E55(y)

NTP50 does not have current keeper of type

Domain:
E18 Physical Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP50(x,y) ⇒ E18(x)
NTP50(x,y) ⇒ E55(y)

NTP51 does not have former or current owner of type

Domain:
E18 Physical Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP51(x,y) ⇒ E18(x)
NTP51(x,y) ⇒ E55(y)

NTP52 does not have current owner of type

Domain:
E18 Physical Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP52(x,y) ⇒ E18(x)
NTP52(x,y) ⇒ E55(y)

NTP53 does not have former or current location of type

Domain:
E18 Physical Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:

scope note goes here

Examples:
book is not located in a store room

In First Order Logic:
NTP53(x,y) ⇒ E18(x)
NTP53(x,y) ⇒ E55(y)

NTP54 does not have current permanent location of type

Domain:
E19 Physical Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
book is not located in a store room

In First Order Logic:
NTP54(x,y) ⇒ E19(x)
NTP54(x,y) ⇒ E55(y)

NTP55 does not have current location of type

Domain:
E19 Physical Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
book is not located in a store room

In First Order Logic:
NTP55(x,y) ⇒ E19(x)
NTP55(x,y) ⇒ E55(y)

NTP56 does not bear feature of type

Domain:
E19 Physical Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
cover does not bear feature of type gold tooling

In First Order Logic:
NTP56(x,y) ⇒ E19(x)
NTP56(x,y) ⇒ E55(y)

NTP59 does not have section of type

Domain:
E18 Physical Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
book spine does not have section of type “panels”

In First Order Logic:
NTP59(x,y) ⇒ E18(x)
NTP59(x,y) ⇒ E55(y)

NTP62 does not depict entity of type

Domain:
E24 Physical Human-Made Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
painting does not depict flowers

In First Order Logic:
NTP62(x,y) ⇒ E24(x)
NTP62(x,y) ⇒ E55(y)

NTP65 does not show visual item of type

Domain:
E24 Physical Human-Made Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
my coin does not show visual item of type portrait

In First Order Logic:
NTP65(x,y) ⇒ E24(x)
NTP65(x,y) ⇒ E55(y)

NTP67 does not refer to entity of type

Domain:
E89 Propositional Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:

text does not refer to wars

In First Order Logic:
NTP67(x,y) ⇒ E89(x)
NTP67(x,y) ⇒ E55(y)

NTP68 does not foresee use of material

Domain:
E29 Design or Procedure

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
instructions for painting cleaning does not foresee use of hazardous solvents

In First Order Logic:
NTP68(x,y) ⇒ E29(x)
NTP68(x,y) ⇒ E55(y)

NTP69 does not have association with design or procedure of type

Domain:
E29 Design or Procedure

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
cleaning instructions of the book do not include cleaning of textblocks

In First Order Logic:
NTP69(x,y) ⇒ E29(x)
NTP69(x,y) ⇒ E55(y)

NTP70 does not document entity of type

Domain:
E31 Document

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP70(x,y) ⇒ E31(x)
NTP70(x,y) ⇒ E55(y)

NTP71 does not list entity of type

Domain:
E32 Authority Document

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP71(x,y) ⇒ E32(x)
NTP71(x,y) ⇒ E55(y)

NTP72 does not have language

Domain:
E33 Linguistic Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:

todo

Scope note:
scope note goes here

Examples:
the text is not written in greek

In First Order Logic:
NTP72(x,y) ⇒ E33(x)
NTP72(x,y) ⇒ E55(y)

NTP73 does not have translation linguistic object of type

Domain:
E33 Linguistic Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
my translation is not translation of poetry

In First Order Logic:
NTP73(x,y) ⇒ E33(x)
NTP73(x,y) ⇒ E55(y)

NTP74 does not have current or former residence of type

Domain:
E39 Actor

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
my friend does not live in a mansion

In First Order Logic:

NTP74(x,y) ⇒ E39(x)
NTP74(x,y) ⇒ E55(y)

NTP75 does not possess right of type

Domain:
E39 Actor

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
the author of the book does not possess right of type “copyright” (i.e. the publisher owns the copyright)

In First Order Logic:
NTP75(x,y) ⇒ E39(x)
NTP75(x,y) ⇒ E55(y)

NTP76 does not have contact point of type

Domain:
E39 Actor

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
my friend does not have an email

In First Order Logic:
NTP76(x,y) ⇒ E39(x)
NTP76(x,y) ⇒ E55(y)

NTP79 beginning is not qualified by note of type

Domain:
E52 Time-Span

Range:

E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP79(x,y) ⇒ E52(x)
NTP79(x,y) ⇒ E55(y)

NTP80 end is not qualified by note of type

Domain:
E52 Time-Span

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP80(x,y) ⇒ E52(x)
NTP80(x,y) ⇒ E55(y)

NTP89 does not fall within place of type

Domain:
E53 Place

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
the place of my house is not on an island

In First Order Logic:
NTP89(x,y) ⇒ E53(x)
NTP89(x,y) ⇒ E55(y)

NTP92 did not bring into existence persistent item of type

Domain:
E63 Beginning of Existence

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
binding work has not produced a limp binding

In First Order Logic:
NTP92(x,y) ⇒ E63(x)
NTP92(x,y) ⇒ E55(y)

NTP93 did not take out of existence persistent item of type

Domain:
E64 End of Existence

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
volcano eruption did not destroy villas

In First Order Logic:
NTP93(x,y) ⇒ E64(x)
NTP93(x,y) ⇒ E55(y)

NTP94 has not created conceptual object of type

Domain:
E65 Creation

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
iliad's composition has not created a theatre play

In First Order Logic:
NTP94(x,y) ⇒ E65(x)
NTP94(x,y) ⇒ E55(y)

NTP95 has not formed group of type

Domain:
E66 Formation

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
elections has not formed group of type local government (i.e. general elections as opposed to council

In First Order Logic:
NTP95(x,y) ⇒ E66(x)
NTP95(x,y) ⇒ E55(y)

NTP96 not by mother of type

Domain:
E67 Birth

Range:
E55 Type

Superproperty of:

todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP96(x,y) ⇒ E67(x)
NTP96(x,y) ⇒ E55(y)

NTP97 not from father of type

Domain:
E67 Birth

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP97(x,y) ⇒ E67(x)
NTP97(x,y) ⇒ E55(y)

NTP98 did not bring into life person of type

Domain:
E67 Birth

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP98(x,y) ⇒ E67(x)
NTP98(x,y) ⇒ E55(y)

NTP99 did not dissolve group of type

Domain:
E68 Dissolution

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
civil war did not dissolve political groups

In First Order Logic:
NTP99(x,y) ⇒ E68(x)
NTP99(x,y) ⇒ E55(y)

NTP100 was not death of person of type

Domain:
E69 Death

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP100(x,y) ⇒ E69(x)
NTP100(x,y) ⇒ E55(y)

NTP101 did not have general use of type

Domain:

E70 Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
my antique car did not have general use of type “transportation”

In First Order Logic:
NTP101(x,y) ⇒ E70(x)
NTP101(x,y) ⇒ E55(y)

NTP102 does not have title of type

Domain:
E71 Human-Made Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
text does not have chapter title

In First Order Logic:
NTP102(x,y) ⇒ E71(x)
NTP102(x,y) ⇒ E55(y)

NTP103 was not intended for

Domain:
E71 Human-Made Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
this place was not intended for being broken at my wedding reception

In First Order Logic:
NTP103(x,y) ⇒ E71(x)
NTP103(x,y) ⇒ E55(y)

NTP104 is not subject to right of type

Domain:
E72 Legal Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
this book is out of copyright

In First Order Logic:
NTP104(x,y) ⇒ E72(x)
NTP104(x,y) ⇒ E55(y)

NTP105 right is not held by actor of type

Domain:
E72 Legal Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:

NTP105(x,y) ⇒ E72(x)
NTP105(x,y) ⇒ E55(y)

NTP106 is not composed of symbolic object of type

Domain:
E90 Symbolic Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
Olympic airways logo is not composed of symbolic objects of type “letter”

In First Order Logic:
NTP106(x,y) ⇒ E90(x)
NTP106(x,y) ⇒ E55(y)

NTP107 does not have current or former member of type

Domain:
E74 Group

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP107(x,y) ⇒ E74(x)
NTP107(x,y) ⇒ E55(y)

NTP108 has not produced physical human-made thing of type

Domain:
E12 Production

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
binding work has not produced a limp binding

In First Order Logic:
NTP108(x,y) ⇒ E12(x)
NTP108(x,y) ⇒ E55(y)

NTP109 does not have current or former curator of type

Domain:
E78 Curated Holding

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP109(x,y) ⇒ E78(x)
NTP109(x,y) ⇒ E55(y)

NTP110 did not augment physical human-made thing of type

Domain:
E79 Part Addition

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:

scope note goes here

Examples:

endleaf addition did not augment a limp binding

In First Order Logic:

NTP110(x,y) ⇒ E79(x)
NTP110(x,y) ⇒ E55(y)

NTP111 did not add physical thing of type

Domain:

E79 Part Addition

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

scope note goes here

Examples:

rebinding did not add gold tooling to the book

In First Order Logic:

NTP111(x,y) ⇒ E79(x)
NTP111(x,y) ⇒ E55(y)

NTP112 did not diminish physical human-made thing of type

Domain:

E80 Part Removal

Range:

E55 Type

Superproperty of:

todo

Subproperty of:

todo

Quantification:

todo

Scope note:

scope note goes here

Examples:

endleaf removal did not diminish a limp binding

In First Order Logic:

NTP112(x,y) ⇒ E80(x)
NTP112(x,y) ⇒ E55(y)

NTP113 did not remove physical thing of type

Domain:
E80 Part Removal

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
rebinding did not remove boards from the book

In First Order Logic:
NTP113(x,y) ⇒ E80(x)
NTP113(x,y) ⇒ E55(y)

NTP121 does not overlap with place of type

Domain:
E53 Place

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
my village does not overlap with a river

In First Order Logic:
NTP121(x,y) ⇒ E53(x)
NTP121(x,y) ⇒ E55(y)

NTP122 does not border with place of type

Domain:
E53 Place

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
my village does not border with a river

In First Order Logic:
NTP122(x,y) ⇒ E53(x)
NTP122(x,y) ⇒ E55(y)

NTP123 did not result in persistent item of type

Domain:
E81 Transformation

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
church refurbishment did not result in a school

In First Order Logic:
NTP123(x,y) ⇒ E81(x)
NTP123(x,y) ⇒ E55(y)

NTP124 did not transform persistent item of type

Domain:
E81 Transformation

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:

refurbishment did not transform building of type school

In First Order Logic:
NTP124(x,y) ⇒ E81(x)
NTP124(x,y) ⇒ E55(y)

NTP125 did not use object of type

Domain:
E7 Activity

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
the binding of the book did not use a book press

In First Order Logic:
NTP125(x,y) ⇒ E7(x)
NTP125(x,y) ⇒ E55(y)

NTP126 did not employ material

Domain:
E11 Modification

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
the binding did not use tanned gold leaf

In First Order Logic:
NTP126(x,y) ⇒ E11(x)
NTP126(x,y) ⇒ E55(y)

NTP128 does not carry symbolic object of type

Domain:
E18 Physical Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
my book is not of poetry

In First Order Logic:
NTP128(x,y) ⇒ E18(x)
NTP128(x,y) ⇒ E55(y)

NTP129 is not about entity of type

Domain:
E89 Propositional Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP129(x,y) ⇒ E89(x)
NTP129(x,y) ⇒ E55(y)

NTP130 does not show features of thing of type

Domain:
E70 Thing

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:

todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP130(x,y) ⇒ E70(x)
NTP130(x,y) ⇒ E55(y)

NTP134 did not continue activity of type

Domain:
E7 Activity

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP134(x,y) ⇒ E7(x)
NTP134(x,y) ⇒ E55(y)

NTP137 does not exemplify

Domain:
E1 CRM Entity

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
specimen XX is not a TYPE specimen for species XXX

In First Order Logic:

NTP137(x,y) ⇒ E1(x)
NTP137(x,y) ⇒ E55(y)

NTP138 does not represent entity of type

Domain:
E36 Visual Item

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
image does not represent manuscript text

In First Order Logic:
NTP138(x,y) ⇒ E36(x)
NTP138(x,y) ⇒ E55(y)

NTP139 does not have alternative form of type

Domain:
E41 Appellation

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
Martin Doerr does not have alternative form of type alternative spelling

In First Order Logic:
NTP139(x,y) ⇒ E41(x)
NTP139(x,y) ⇒ E55(y)

NTP140 did not assign attribute to entity of type

Domain:
E13 Attribute Assignment

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
did not assess object of type book

In First Order Logic:
NTP140(x,y) ⇒ E13(x)
NTP140(x,y) ⇒ E55(y)

NTP141 did not assign entity of type

Domain:
E13 Attribute Assignement

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
did not assess condition

In First Order Logic:
NTP141(x,y) ⇒ E13(x)
NTP141(x,y) ⇒ E55(y)

NTP142 did not use constituent of type

Domain:
E15 Identifier Assignment

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:

scope note goes here

Examples:
todo

In First Order Logic:
NTP142(x,y) ⇒ E15(x)
NTP142(x,y) ⇒ E55(y)

NTP143 did not join actor of type

Domain:
E85 Joining

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP143(x,y) ⇒ E85(x)
NTP143(x,y) ⇒ E55(y)

NTP144 did not join with group of type

Domain:
E85 Joining

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
footballer did not join a basketball team

In First Order Logic:
NTP144(x,y) ⇒ E85(x)
NTP144(x,y) ⇒ E55(y)

NTP145 did not separate actor of type

Domain:
E86 Leaving

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP145(x,y) ⇒ E86(x)
NTP145(x,y) ⇒ E55(y)

NTP146 did not separate from group of type

Domain:
E86 Leaving

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
footballer did not separate from a basketball team

In First Order Logic:
NTP146(x,y) ⇒ E86(x)
NTP146(x,y) ⇒ E55(y)

NTP147 did not curate curated holding of type

Domain:
E87 Curation Activity

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
did not curate a collection of pottery

In First Order Logic:
NTP147(x,y) ⇒ E87(x)
NTP147(x,y) ⇒ E55(y)

NTP148 does not have component of type

Domain:
E89 Propositional Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
my thesis does not have appendices

In First Order Logic:
NTP148(x,y) ⇒ E89(x)
NTP148(x,y) ⇒ E55(y)

NTP150 does not define typical parts of

Domain:
E55 Type

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:

the object hierarchy of LoB does not define typical parts of materials

In First Order Logic:
NTP150(x,y) ⇒ E55(x)
NTP150(x,y) ⇒ E55(y)

NTP151 was not formed from group of type

Domain:
E66 Formation

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP151(x,y) ⇒ E66(x)
NTP151(x,y) ⇒ E55(y)

NTP152 does not have parent of type

Domain:
E21 Person

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP152(x,y) ⇒ E21(x)
NTP152(x,y) ⇒ E55(y)

NTP157 is not at rest relative to physical thing of type

Domain:
E53 Place

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
Nelson’s place of death is not at rest relative to a fort

In First Order Logic:
NTP157(x,y) ⇒ E53(x)
NTP157(x,y) ⇒ E55(y)

NTP165 does not incorporate symbolic object of type

Domain:
E73 Information Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
My image my cat does not incorporate symbolic object of type “letters”

In First Order Logic:
NTP165(x,y) ⇒ E73(x)
NTP165(x,y) ⇒ E55(y)

NTP179 did not have sales price of monetary amount of type

Domain:
E96 Purchase

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:

todo

Scope note:
scope note goes here

Examples:
book did not sell at auction maximum price

In First Order Logic:
NTP179(x,y) ⇒ E96(x)
NTP179(x,y) ⇒ E55(y)

NTP186 did not produce thing of product type

Domain:
E12 Production

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
volkswagen beettle production did not produce mini

In First Order Logic:
NTP186(x,y) ⇒ E12(x)
NTP186(x,y) ⇒ E55(y)

NTP187 does not have production plan of type

Domain:
E99 Product Type

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
volswagen beetle production does not have electrics plan

In First Order Logic:

NTP187(x,y) ⇒ E99(x)
NTP187(x,y) ⇒ E55(y)

NTP188 does not require production tool of type

Domain:
E99 Product Type

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
volkswagen beetle production does not require metal press

In First Order Logic:
NTP188(x,y) ⇒ E99(x)
NTP188(x,y) ⇒ E55(y)

NTP190 does not have symbolic content of type

Domain:
E90 Symbolic Object

Range:
E55 Type

Superproperty of:
todo

Subproperty of:
todo

Quantification:
todo

Scope note:
scope note goes here

Examples:
todo

In First Order Logic:
NTP190(x,y) ⇒ E90(x)
NTP190(x,y) ⇒ E55(y)

Amendments