

Definition of the CRM**ntp**

An Extension of CIDOC CRM to support negative statements

Proposal for approval by CIDOC CRM-SIG

Version 0.1

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# Index

# 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 XX maintained by CIDOC.

# Scope

# Status

# **CRMntp** class hierarchy, aligned with portions from the CIDOC CRM class hierarchies

This class hierarchy lists:

* all classes declared in <Current Family model>
* all classes declared in <other Family model/s[[1]](#footnote-2)> and CIDOC CRM that are declared as superclasses of classes declared in the <Current Family model>,
* all classes declared in <other Family model/s> or CIDOC CRM that are either domain or range for a property declared in the <Current Family model>,
* all classes declared in <other Family model/s> and CIDOC CRM that are either domain or range for a property declared in <other Family model/s> or CIDOC CRM that is declared as superproperty of a property declared in the <Current Family model>
* all classes declared in <other Family model/s> and CIDOC CRM that are either domain or range for a property that is part of a complete path of which a property declared in <Current Family model> is declared to be a shortcut.

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<table>

List of external classes used in <Current Family model>

|  |  |  |  |
| --- | --- | --- | --- |
| Class identifier | Class name | Model | Version |
| S4 | Observation | CRMsci | 1.2 |
|  |  |  |  |

# 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>[[2]](#footnote-3), 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>

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 Class Declarations

# 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

1. It should be clearly mentioned the versions of other models. For example:

   CRM <family model name> ver. XX [↑](#footnote-ref-2)
2. It should be clearly mentioned the versions of other models. For example:

   CRM <family model name> ver. XX [↑](#footnote-ref-3)