

Entities (103)

- Thing
- Active
- allowsMatchWith
- BasicNeedType
- boolean
- Closed
- comment
- CompositeContainer
- Connected
- Connection
- ConnectionContainer
- ConnectionState
- created
- creator
- Critique
- date
- dateTimeStamp
- Demand
- DoTogether
- duration
- embedSpinAsk
- EventContainer
- Facet
- float
- GroupFacet
- hasActiveMQNeedProtocolQueueName
- hasActiveMQOwnerProtocolQueueName
- hasAdditionalData
- hasBasicNeedType
- hasBrokerUri
- hasConnections
- hasConnectionState
- hasContent
- hasContentDescription
- hasCurrency
- hasCurrency
- hasDepth
- hasEndTime
- hasEventContainer
- hasFacet
- hasHeight
- hasISOCCode
- hasISOCCode
- hasLocationSpecification
- hasLowerPriceLimit

- hasMatcherProtocolEndpoint
- hasNeedModality
- hasNeedProtocolEndpoint
- hasOriginator
- hasOwner
- hasOwnerProtocolEndpoint
- hasPriceSpecification
- hasQuantitativeProperty
- hasRecurIn
- hasRecurInfiniteTimes
- hasRecurTimes
- hasRemoteConnection
- hasRemoteFacet
- hasStartTime
- hasTag
- hasTag
- hasTextDescription
- hasTextDescription
- hasTimeSpecification
- hasTimeStamp
- hasUpperPriceLimit
- hasWeight
- hasWidth
- Inactive
- integer
- isDefinedBy
- isInState
- label
- latitude
- LocationSpecification
- longitude
- Need
- NeedContent
- NeedModality
- NeedState
- Nothing
- OwnerFacet
- PlainLiteral
- Point
- PriceSpecification
- QuantitativeValue
- Region
- RequestReceived
- RequestSent
- string
- string
- Suggested

- Supply
- supportsWonProtocolImpl
- Tag
- TimeSpecification
- title
- title
- topDataProperty
- topObjectProperty
- WonOverActiveMq
- WonOverSoapWs
- WonProtocol

Class: Thing

<http://www.w3.org/2002/07/owl#Thing>

Usage (2)

- hasAdditionalData Range Thing
- hasContentDescription Range Thing

Individual: Active

<http://purl.org/webofneeds/model#Active>

Annotations (2)

- comment "The active state. " (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Types (1)

- NeedState

Usage (1)

- Individual: Active

Object Property: allowsMatchWith

<http://purl.org/webofneeds/model#allowsMatchWith>

Annotations (2)

- comment "Connects two basic need types to indicate that they are suitable for a match." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Property Characteristics (1)

- Symmetric (allowsMatchWith)

Domains (1)

- BasicNeedType

Ranges (1)

- BasicNeedType

Usage (5)

- ObjectProperty: allowsMatchWith
- Critique allowsMatchWith Critique
- Demand allowsMatchWith Supply
- DoTogether allowsMatchWith DoTogether
- Supply allowsMatchWith Demand

Class: BasicNeedType

<http://purl.org/webofneeds/model#BasicNeedType>

Annotations (2)

- comment "Superclass for types of needs. Used primarily to indicate which types of needs are compatible with each other for sending hints." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Disjoints (4)

Critique, Demand, DoTogether, Supply

Usage (8)

- Class: BasicNeedType
- Critique: BasicNeedType
- Demand: BasicNeedType
- DoTogether: BasicNeedType
- Supply: BasicNeedType
- allowsMatchWith Domain BasicNeedType
- allowsMatchWith Range BasicNeedType
- hasBasicNeedType Range BasicNeedType

Datatype: boolean

<http://www.w3.org/2001/XMLSchema#boolean>

Usage (1)

- hasRecursInfiniteTimes Range boolean

Individual: Closed

<http://purl.org/webofneeds/model#Closed>

Annotations (2)

- comment "The closed state. No Messages are forwarded in this state. Re-opening a connection is possible." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Types (1)

- ConnectionState

Usage (1)

- Individual: Closed

Annotation Property: comment

<http://www.w3.org/2000/01/rdf-schema#comment>

Usage (72)

- <http://purl.org/webofneeds/model#Active> /* comment "The active state. " (en) */
- <http://purl.org/webofneeds/model#BasicNeedType> /* comment "Superclass for types of needs. Used primarily to indicate which types of needs are compatible with each other for sending hints." (en) */
- <http://purl.org/webofneeds/model#Closed> /* comment "The closed state. No Messages are forwarded in this state. Re-opening a connection is possible." (en) */
- <http://purl.org/webofneeds/model#Connected> /* comment "The connected state. Messages are forwarded to/from the owner." (en) */
- <http://purl.org/webofneeds/model#Connection> /* comment "Represents a Connection to between two Needs. Whenever two Needs are connected, each Need creates a dedicated Connection object which encapsulate all information about the connection." (en) */
- <http://purl.org/webofneeds/model#ConnectionContainer> /* comment "Container for Connections." (en) */
- <http://purl.org/webofneeds/model#ConnectionState> /* comment "A Connection's state." (en) */
- <http://purl.org/webofneeds/model#Critique> /* comment "Indicates that the Need owner is dissatisfied with something, which should be described in more detail through NeedDescription and NeedModality. The owner may be interested in doing something about the problem, so matching services are advised to provide hints to similar Critique Needs." (en) */
- <http://purl.org/webofneeds/model#Demand> /* comment "Indicates that the Need owner wants to obtain, borrow, rent, etc. something or consume a service. Hints to Supply objects are expected." (en) */
- <http://purl.org/webofneeds/model#DoTogether> /* comment "Indicates that the Need owner is interested in social activity of some sort. Hints to other DoTogether Needs are expected." (en) */
- <http://purl.org/webofneeds/model#EventContainer> /* comment "Container for Events." (en) */
- <http://purl.org/webofneeds/model#Facet> /* comment "Facets are behaviours a Need can choose to support. Connections have a Facet; Needs can be connected through multiple Connections if they have different Facets." (en) */
- <http://purl.org/webofneeds/model#GroupFacet> /* comment "The group facet. Messages are forwarded to all connections with this facet." (en) */
- <http://purl.org/webofneeds/model#Inactive> /* comment "The inactive state. Needs do not communicate in this state. Intended to stop receiving messages for something not currently of interest." (en) */
- <http://purl.org/webofneeds/model#LocationSpecification> /* comment "Specifies where a Need is available." (en) */
- <http://purl.org/webofneeds/model#Need> /* comment "A need is an online entity controlled by a person or organization. Its purpose is to be connected to other such needs via Connections, so it can be said that it represents the need to interact with others. It specifies a content - what the need is about, which may be something that is offered for sale, sought for rental etc." (en) */
- <http://purl.org/webofneeds/model#NeedContent> /* comment "Whatever the Need is about." (en) */
- <http://purl.org/webofneeds/model#NeedModality> /* comment "Defines the 'modality' of the

need; in contrast to the NeedContent (the 'what') this should define where, when, and how"
(en) */

- <http://purl.org/webofneeds/model#NeedState> /* comment "The Need's state." (en) */
- <http://purl.org/webofneeds/model#OwnerFacet> /* comment "The Default facet. All messages and events are forwarded to the owner, no action is taken automatically." (en) */
- <http://purl.org/webofneeds/model#PriceSpecification> /* comment "Specifies the price." (en) */
- <http://purl.org/webofneeds/model#RequestReceived> /* comment "Half-open state. The connection has been opened by the remote counterpart but not yet been accepted by the local end." (en) */
- <http://purl.org/webofneeds/model#RequestSent> /* comment "Half-open state. The Connection has been requested by the local end but not yet been accepted by the remote counterpart." (en) */
- <http://purl.org/webofneeds/model#Suggested> /* comment "Suggested state. The Connection has been created through a Hint Event but not yet been opened by either of the sides." (en) */
- <http://purl.org/webofneeds/model#Supply> /* comment "Indicates that the Need owner wants to sell, lend or give away something. Hints to Demand Needs are expected." (en) */
- <http://purl.org/webofneeds/model#TimeSpecification> /* comment "Specifies when a Need is available. Matching services should try to find Needs with TimeSpecifications that overlap with this needs' TimeSpecifications." (en) */
- <http://purl.org/webofneeds/model#WonOverActiveMq> /* comment "The Web of Needs protocol implementation that uses ActiveMQ." (en) */
- <http://purl.org/webofneeds/model#WonOverSoapWs> /* comment "The Web of Needs Protocol implementation that uses SOAP Webservices." (en) */
- <http://purl.org/webofneeds/model#WonProtocol> /* comment "Superclass for Web of Needs protocol implementations. " (en) */
- <http://purl.org/webofneeds/model#allowsMatchWith> /* comment "Connects two basic need types to indicate that they are suitable for a match." (en) */
- <http://purl.org/webofneeds/model#embedSpinAsk> /* comment "allows to attach a SPIN ASK clause to a content description, restricting possible matches" (en) */
- <http://purl.org/webofneeds/model#hasActiveMQNeedProtocolQueueName> /* comment "Name of the ActiveMQ queue used for the need protocol." (en) */
- <http://purl.org/webofneeds/model#hasActiveMQOwnerProtocolQueueName> /* comment "Name of the ActiveMQ queue used for the owner protocol." (en) */
- <http://purl.org/webofneeds/model#hasAdditionalData> /* comment "Contains additional information in form of an RDF graph about an event." (string) */
- <http://purl.org/webofneeds/model#hasBasicNeedType> /* comment "Specifies the basic need type of a need. This is primarily intended as a guidance for matching services." (en) */
- <http://purl.org/webofneeds/model#hasBrokerUri> /* comment "Specifies the ActiveMQ broker URI to be used to contact the need." (en) */
- <http://purl.org/webofneeds/model#hasConnectionState> /* comment "Indicates the state in which the Connection object is." (en) */
- <http://purl.org/webofneeds/model#hasConnections> /* comment "Links the Need object to its connections." (en) */
- <http://purl.org/webofneeds/model#hasContent> /* comment "Links the Need entity with the node representing its 'content'." (en) */
- <http://purl.org/webofneeds/model#hasContentDescription> /* comment "Connects the need content node with a node that is intended to be connected to an arbitrary RDF graph used to describe the need content with any vocabulary or ontology." (en) */
- <http://purl.org/webofneeds/model#hasCurrency> /* comment "The currency for all prices given using the ISO 4217 standard (3 characters)." (en) */

- <http://purl.org/webofneeds/model#hasDepth> /* comment "Depth specified as a QuantitativeValue (specifies unit of measurement and value). " (en) */
- <http://purl.org/webofneeds/model#hasEndTime> /* comment "The end time as an xsd:dateTimeStamp." (en) */
- <http://purl.org/webofneeds/model#hasEventContainer> /* comment "Links the Connection object to a container containing connection events (messages)." (en) */
- <http://purl.org/webofneeds/model#hasFacet> /* comment "Indicates that a need or connection supports the specified facet (=behaviour)." (en) */
- <http://purl.org/webofneeds/model#hasHeight> /* comment "Height specified as a QuantitativeValue (specifies unit of measurement and value). " (en) */
- <http://purl.org/webofneeds/model#hasISOCode> /* comment "Specifies the ISO region code as defined in ISO 3166-2." (en) */
- <http://purl.org/webofneeds/model#hasLocationSpecification> /* comment "Links a NeedDescription entity to a description of its location." (en) */
- <http://purl.org/webofneeds/model#hasLowerPriceLimit> /* comment "The lower price limit (only value, no currency)." (en) */
- <http://purl.org/webofneeds/model#hasMatcherProtocolEndpoint> /* comment "Points to the matcherProtocol webservice endpoint of the need. I.e., matchers can communicate with the need through this endpoint." (en) */
- <http://purl.org/webofneeds/model#hasNeedModality> /* comment "Defines the 'modality' of the need; in contrast to the content (the 'what') this should define where, when, and how" (en) */
- <http://purl.org/webofneeds/model#hasNeedProtocolEndpoint> /* comment "Points to the needProtocol webservice endpoint of the need. I.e., won nodes can communicate with the need through this endpoint." (en) */
- <http://purl.org/webofneeds/model#hasOriginator> /* comment "The entity (Need, Connection, or Service - eg. matching service) that originated the event." (en) */
- <http://purl.org/webofneeds/model#hasOwner> /* comment "Specifies who controls the need." (en) */
- <http://purl.org/webofneeds/model#hasOwnerProtocolEndpoint> /* comment "Points to the ownerProtocol webservice endpoint of the need. I.e., owner applications can communicate with the need through this endpoint." (en) */
- <http://purl.org/webofneeds/model#hasPriceSpecification> /* comment "Specifies the price of a need." (en) */
- <http://purl.org/webofneeds/model#hasQuantitativeProperty> /* comment "Superproperty for quantitative properties. Some are already defined in the ontology." (en) */
- <http://purl.org/webofneeds/model#hasRecursIn> /* comment "If set, specifies the interval of recurrence measured from the startTime, in xsd:duration." (en) */
- <http://purl.org/webofneeds/model#hasRecursInfiniteTimes> /* comment "Indicates that the TimeSpecification is repeated until the end of time." (en) */
- <http://purl.org/webofneeds/model#hasRecursTimes> /* comment "Specifies how often the interval recurs." (en) */
- <http://purl.org/webofneeds/model#hasRemoteConnection> /* comment "Links a Connection object to its remote counterpart." (en) */
- <http://purl.org/webofneeds/model#hasRemoteFacet> /* comment "Indicates that a remote need or remote connection supports the specified facet (=behaviour) or specifies the remote facet to connect with." (en) */
- <http://purl.org/webofneeds/model#hasStartTime> /* comment "The start time as an xsd:dateTimeStamp." (en) */
- <http://purl.org/webofneeds/model#hasTag> /* comment "Specifies a tag for the need content."

(en) */

- <http://purl.org/webofneeds/model#hasTextDescription> /* comment "Textual description of the need. May contain #hashtags but no HTML, XHTML or other formatting." (en) */
- <http://purl.org/webofneeds/model#hasTimeSpecification> /* comment "Specifies when the Need object is available." (en) */
- <http://purl.org/webofneeds/model#hasTimeStamp> /* comment "The time and date when the event occurred." (en) */
- <http://purl.org/webofneeds/model#hasUpperPriceLimit> /* comment "The upper price limit (only value, no currency)." (en) */
- <http://purl.org/webofneeds/model#hasWeight> /* comment "Weight specified as a QuantitativeValue (specifies unit of measurement and value). " (en) */
- <http://purl.org/webofneeds/model#hasWidth> /* comment "Width specified as a QuantitativeValue (specifies unit of measurement and value). " (en) */
- <http://purl.org/webofneeds/model#isInState> /* comment "Defines the Need object's state." (en) */
- <http://purl.org/webofneeds/model#supportsWonProtocolImpl> /* comment "Connects a Need object with a description of a WON protocol it supports." (en) */

Class: CompositeContainer

<http://www.w3.org/ns/ldp#CompositeContainer>

Usage (1)

- Class: CompositeContainer

Individual: Connected

<http://purl.org/webofneeds/model#Connected>

Annotations (2)

- comment "The connected state. Messages are forwarded to/from the owner." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Types (1)

- ConnectionState

Usage (1)

- Individual: Connected

Class: Connection

<http://purl.org/webofneeds/model#Connection>

Annotations (2)

- comment "Represents a Connection to between two Needs. Whenever two Needs are connected, each Need creates a dedicated Connection object which encapsulate all information about the connection." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Usage (5)

- Class: Connection
- hasConnectionState Domain Connection
- hasEventContainer Domain Connection
- hasRemoteConnection Domain Connection
- hasRemoteConnection Range Connection

Class: ConnectionContainer

<http://purl.org/webofneeds/model#ConnectionContainer>

Annotations (2)

- comment "Container for Connections." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Superclasses (1)

- CompositeContainer

Usage (2)

- Class: ConnectionContainer
- hasConnections Range ConnectionContainer

Class: ConnectionState

<http://purl.org/webofneeds/model#ConnectionState>

Annotations (2)

- comment "A Connection's state." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Disjoints (5)

Closed, Connected, RequestReceived, RequestSent, Suggested

Usage (7)

- Class: ConnectionState
- Closed: ConnectionState
- Connected: ConnectionState
- RequestReceived: ConnectionState
- RequestSent: ConnectionState
- Suggested: ConnectionState
- hasConnectionState Range ConnectionState

Data Property: created

<http://purl.org/dc/terms#created>

Annotations (1)

- isDefinedBy <http://purl.org/webofneeds/model>

Superproperties (1)

- topDataProperty

Usage (2)

- DataProperty: created
- created $\hat{=}$ topDataProperty

Annotation Property: creator

<http://purl.org/dc/elements/1.1/creator>

Individual: Critique

<http://purl.org/webofneeds/model#Critique>

Annotations (2)

- comment "Indicates that the Need owner is dissatisfied with something, which should be described in more detail through NeedDescription and NeedModality. The owner may be interested in doing something about the problem, so matching services are advised to provide hints to similar Critique Needs." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Types (1)

- BasicNeedType

Usage (2)

- Individual: Critique
- Critique allowsMatchWith Critique

Annotation Property: date

<http://purl.org/dc/elements/1.1/date>

Datatype: dateTimeStamp

<http://www.w3.org/2001/XMLSchema#dateTimeStamp>

Usage (3)

- hasEndTime Range dateTimeStamp
- hasStartTime Range dateTimeStamp
- hasTimeStamp Range dateTimeStamp

Individual: Demand

<http://purl.org/webofneeds/model#Demand>

Annotations (2)

- comment "Indicates that the Need owner wants to obtain, borrow, rent, etc. something or consume a service. Hints to Supply objects are expected." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Types (1)

- BasicNeedType

Usage (3)

- Individual: Demand
- Demand allowsMatchWith Supply
- Supply allowsMatchWith Demand

Individual: DoTogether

<http://purl.org/webofneeds/model#DoTogether>

Annotations (2)

- comment "Indicates that the Need owner is interested in social activity of some sort. Hints to other DoTogether Needs are expected." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Types (1)

- BasicNeedType

Usage (2)

- Individual: DoTogether
- DoTogether allowsMatchWith DoTogether

Datatype: duration

<http://www.w3.org/2001/XMLSchema#duration>

Usage (2)

- Datatype: duration
- hasRecursIn Range duration

Object Property: **embedSpinAsk**

<http://purl.org/webofneeds/model#embedSpinAsk>

Annotations (2)

- comment "allows to attach a SPIN ASK clause to a content description, restricting possible matches" (en)
- isDefinedBy [http://purl.org/webofneeds/](http://purl.org/webofneeds/model)**model**

Usage (1)

- ObjectProperty: **embedSpinAsk**

Class: EventContainer

<http://purl.org/webofneeds/model#EventContainer>

Annotations (2)

- comment "Container for Events." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Superclasses (1)

- CompositeContainer

Usage (2)

- Class: EventContainer
- hasEventContainer Range EventContainer

Class: Facet

<http://purl.org/webofneeds/model#Facet>

Annotations (2)

- comment "Facets are behaviours a Need can choose to support. Connections have a Facet; Needs can be connected through multiple Connections if they have different Facets." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Disjoints (2)

GroupFacet, OwnerFacet

Usage (5)

- Class: Facet
- GroupFacet: Facet
- OwnerFacet: Facet
- hasConnections Domain Facet
- hasFacet Range Facet

Datatype: float

<http://www.w3.org/2001/XMLSchema#float>

Usage (4)

- hasLowerPriceLimit Range float
- hasUpperPriceLimit Range float
- latitude Range float
- longitude Range float

Individual: GroupFacet

<http://purl.org/webofneeds/model#GroupFacet>

Annotations (2)

- comment "The group facet. Messages are forwarded to all connections with this facet." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Types (1)

- Facet

Usage (1)

- Individual: GroupFacet

Data Property: **hasActiveMQNeedProtocolQueueName**

<http://purl.org/webofneeds/model#hasActiveMQNeedProtocolQueueName>

Annotations (2)

- comment "Name of the ActiveMQ queue used for the need protocol." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Usage (1)

- DataProperty: **hasActiveMQNeedProtocolQueueName**

Data Property:

hasActiveMQOwnerProtocolQueueName

<http://purl.org/webofneeds/model#hasActiveMQOwnerProtocolQueueName>

Annotations (2)

- comment "Name of the ActiveMQ queue used for the owner protocol." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Usage (1)

- DataProperty: hasActiveMQOwnerProtocolQueueName

Object Property: **hasAdditionalData**

<http://purl.org/webofneeds/model#hasAdditionalData>

Annotations (2)

- comment "Contains additional information in form of an RDF graph about an event." (string)
- isDefinedBy <http://purl.org/webofneeds/model>

Ranges (1)

- Thing

Usage (1)

- ObjectProperty: **hasAdditionalData**

Object Property: hasBasicNeedType

<http://purl.org/webofneeds/model#hasBasicNeedType>

Annotations (2)

- comment "Specifies the basic need type of a need. This is primarily intended as a guidance for matching services." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Property Characteristics (1)

- Functional (hasBasicNeedType)

Domains (1)

- Need

Ranges (1)

- BasicNeedType

Usage (1)

- ObjectProperty: hasBasicNeedType

Object Property: hasBrokerUri

<http://purl.org/webofneeds/model#hasBrokerUri>

Annotations (2)

- comment "Specifies the ActiveMQ broker URI to be used to contact the need." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Domains (1)

- WonOverActiveMq

Usage (1)

- ObjectProperty: hasBrokerUri

Object Property: hasConnections

<http://purl.org/webofneeds/model#hasConnections>

Annotations (2)

- comment "Links the Need object to its connections." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Domains (1)

- Facet

Ranges (1)

- ConnectionContainer

Usage (1)

- ObjectProperty: hasConnections

Object Property: **hasConnectionState**

<http://purl.org/webofneeds/model#hasConnectionState>

Annotations (2)

- comment "Indicates the state in which the Connection object is." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Property Characteristics (1)

- Functional (hasConnectionState)

Domains (1)

- Connection

Ranges (1)

- ConnectionState

Usage (1)

- ObjectProperty: hasConnectionState

Object Property: hasContent

<http://purl.org/webofneeds/model#hasContent>

Annotations (2)

- comment "Links the Need entity with the node representing its 'content'." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Domains (1)

- Need

Ranges (1)

- NeedContent

Usage (1)

- ObjectProperty: hasContent

Object Property: **hasContentDescription**

<http://purl.org/webofneeds/model#hasContentDescription>

Annotations (2)

- comment "Connects the need content node with a node that is intended to be connected to an arbitrary RDF graph used to describe the need content with any vocabulary or ontology." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Domains (1)

- NeedContent

Ranges (1)

- Thing

Usage (1)

- ObjectProperty: **hasContentDescription**

Object Property: hasCurrency

<http://purl.org/webofneeds/model#hasCurrency>

Annotations (2)

- comment "The currency for all prices given using the ISO 4217 standard (3 characters)." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Domains (1)

- PriceSpecification

Ranges (1)

- string

Usage (1)

- ObjectProperty: hasCurrency

Data Property: hasCurrency

<http://purl.org/webofneeds/model#hasCurrency>

Annotations (2)

- comment "The currency for all prices given using the ISO 4217 standard (3 characters)." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Usage (1)

- DataProperty: hasCurrency

Object Property: hasDepth

<http://purl.org/webofneeds/model#hasDepth>

Annotations (2)

- comment "Depth specified as a QuantitativeValue (specifies unit of measurement and value). " (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Superproperties (1)

- hasQuantitativeProperty

Usage (2)

- ObjectProperty: hasDepth
- hasDepth $\hat{=}$ hasQuantitativeProperty

Data Property: hasEndTime

<http://purl.org/webofneeds/model#hasEndTime>

Annotations (2)

- comment "The end time as an xsd:dateTimeStamp." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Property Characteristics (1)

- Functional (hasEndTime)

Domains (1)

- TimeSpecification

Ranges (1)

- dateTimeStamp

Usage (1)

- DataProperty: hasEndTime

Object Property: hasEventContainer

<http://purl.org/webofneeds/model#hasEventContainer>

Annotations (2)

- comment "Links the Connection object to a container containing connection events (messages)."
(en)
- isDefinedBy <http://purl.org/webofneeds/model>

Property Characteristics (1)

- Functional (hasEventContainer)

Domains (1)

- Connection

Ranges (1)

- EventContainer

Usage (1)

- ObjectProperty: hasEventContainer

Object Property: hasFacet

<http://purl.org/webofneeds/model#hasFacet>

Annotations (2)

- comment "Indicates that a need or connection supports the specified facet (=behaviour)." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Domains (1)

- Need

Ranges (1)

- Facet

Usage (1)

- ObjectProperty: hasFacet

Object Property: hasHeight

<http://purl.org/webofneeds/model#hasHeight>

Annotations (2)

- comment "Height specified as a QuantitativeValue (specifies unit of measurement and value). " (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Superproperties (1)

- hasQuantitativeProperty

Usage (2)

- ObjectProperty: hasHeight
- hasHeight $\hat{=}$ hasQuantitativeProperty

Object Property: hasISOCCode

<http://purl.org/webofneeds/model#hasISOCCode>

Annotations (2)

- comment "Specifies the ISO region code as defined in ISO 3166-2." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Property Characteristics (1)

- Functional (hasISOCCode)

Domains (1)

- Region

Ranges (1)

- string

Usage (1)

- ObjectProperty: hasISOCCode

Data Property: hasISOCode

<http://purl.org/webofneeds/model#hasISOCode>

Annotations (2)

- comment "Specifies the ISO region code as defined in ISO 3166-2." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Property Characteristics (1)

- Functional (hasISOCode)

Usage (1)

- DataProperty: hasISOCode

Object Property: **hasLocationSpecification**

<http://purl.org/webofneeds/model#hasLocationSpecification>

Annotations (2)

- comment "Links a NeedDescription entity to a description of its location." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Domains (1)

- NeedModality

Ranges (1)

- LocationSpecification

Usage (1)

- ObjectProperty: **hasLocationSpecification**

Data Property: hasLowerPriceLimit

<http://purl.org/webofneeds/model#hasLowerPriceLimit>

Annotations (2)

- comment "The lower price limit (only value, no currency)." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Domains (1)

- PriceSpecification

Ranges (1)

- float

Usage (1)

- DataProperty: hasLowerPriceLimit

Object Property: **hasMatcherProtocolEndpoint**

<http://purl.org/webofneeds/model#hasMatcherProtocolEndpoint>

Annotations (2)

- comment "Points to the matcherProtocol webservice endpoint of the need. I.e., matchers can communicate with the need through this endpoint." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Usage (1)

- ObjectProperty: **hasMatcherProtocolEndpoint**

Object Property: hasNeedModality

<http://purl.org/webofneeds/model#hasNeedModality>

Annotations (2)

- comment "Defines the 'modality' of the need; in contrast to the content (the 'what') this should define where, when, and how" (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Domains (1)

- Need

Ranges (1)

- NeedModality

Usage (1)

- ObjectProperty: hasNeedModality

Object Property: **hasNeedProtocolEndpoint**

<http://purl.org/webofneeds/model#hasNeedProtocolEndpoint>

Annotations (2)

- comment "Points to the needProtocol webservice endpoint of the need. I.e., won nodes can communicate with the need through this endpoint." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Superproperties (1)

- topObjectProperty

Usage (2)

- ObjectProperty: **hasNeedProtocolEndpoint**
- **hasNeedProtocolEndpoint** $\hat{=}$ topObjectProperty

Object Property: hasOriginator

<http://purl.org/webofneeds/model#hasOriginator>

Annotations (2)

- comment "The entity (Need, Connection, or Service - eg. matching service) that originated the event." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Property Characteristics (1)

- InverseFunctional (hasOriginator)

Usage (1)

- ObjectProperty: hasOriginator

Object Property: hasOwner

<http://purl.org/webofneeds/model#hasOwner>

Annotations (2)

- comment "Specifies who controls the need." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Property Characteristics (1)

- Functional (hasOwner)

Domains (1)

- Need

Usage (1)

- ObjectProperty: hasOwner

Object Property: **hasOwnerProtocolEndpoint**

<http://purl.org/webofneeds/model#hasOwnerProtocolEndpoint>

Annotations (2)

- comment "Points to the ownerProtocol webservice endpoint of the need. I.e., owner applications can communicate with the need through this endpoint." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Usage (1)

- ObjectProperty: **hasOwnerProtocolEndpoint**

Object Property: hasPriceSpecification

<http://purl.org/webofneeds/model#hasPriceSpecification>

Annotations (2)

- comment "Specifies the price of a need." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Domains (1)

- NeedModality

Ranges (1)

- PriceSpecification

Usage (1)

- ObjectProperty: hasPriceSpecification

Object Property: hasQuantitativeProperty

<http://purl.org/webofneeds/model#hasQuantitativeProperty>

Annotations (2)

- comment "Superproperty for quantitative properties. Some are already defined in the ontology."
(en)
- isDefinedBy <http://purl.org/webofneeds/model>

Domains (1)

- NeedContent

Ranges (1)

- QuantitativeValue

Usage (5)

- ObjectProperty: hasQuantitativeProperty
- hasDepth â hasQuantitativeProperty
- hasHeight â hasQuantitativeProperty
- hasWeight â hasQuantitativeProperty
- hasWidth â hasQuantitativeProperty

Data Property: hasRecursIn

<http://purl.org/webofneeds/model#hasRecursIn>

Annotations (2)

- comment "If set, specifies the interval of recurrence measured from the startTime, in xsd:duration." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Property Characteristics (1)

- Functional (hasRecursIn)

Domains (1)

- TimeSpecification

Ranges (1)

- duration

Usage (1)

- DataProperty: hasRecursIn

Data Property: hasRecursInfiniteTimes

<http://purl.org/webofneeds/model#hasRecursInfiniteTimes>

Annotations (2)

- comment "Indicates that the TimeSpecification is repeated until the end of time." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Property Characteristics (1)

- Functional (hasRecursInfiniteTimes)

Domains (1)

- TimeSpecification

Ranges (1)

- boolean

Usage (1)

- DataProperty: hasRecursInfiniteTimes

Data Property: hasRecursTimes

<http://purl.org/webofneeds/model#hasRecursTimes>

Annotations (2)

- comment "Specifies how often the interval recurs." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Property Characteristics (1)

- Functional (hasRecursTimes)

Domains (1)

- TimeSpecification

Ranges (1)

- integer

Usage (1)

- DataProperty: hasRecursTimes

Object Property: hasRemoteConnection

<http://purl.org/webofneeds/model#hasRemoteConnection>

Annotations (2)

- comment "Links a Connection object to its remote counterpart." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Property Characteristics (3)

- Functional (hasRemoteConnection)
- InverseFunctional (hasRemoteConnection)
- Symmetric (hasRemoteConnection)

Domains (1)

- Connection

Ranges (1)

- Connection

Usage (1)

- ObjectProperty: hasRemoteConnection

Object Property: **hasRemoteFacet**

<http://purl.org/webofneeds/model#hasRemoteFacet>

Annotations (2)

- comment "Indicates that a remote need or remote connection supports the specified facet (=behaviour) or specifies the remote facet to connect with." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Usage (1)

- ObjectProperty: **hasRemoteFacet**

Data Property: hasStartTime

<http://purl.org/webofneeds/model#hasStartTime>

Annotations (2)

- comment "The start time as an xsd:dateTimeStamp." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Property Characteristics (1)

- Functional (hasStartTime)

Domains (1)

- TimeSpecification

Ranges (1)

- dateTimeStamp

Usage (1)

- DataProperty: hasStartTime

Object Property: hasTag

<http://purl.org/webofneeds/model#hasTag>

Annotations (2)

- comment "Specifies a tag for the need content." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Ranges (1)

- string

Usage (1)

- ObjectProperty: hasTag

Data Property: hasTag

<http://purl.org/webofneeds/model#hasTag>

Annotations (2)

- comment "Specifies a tag for the need content." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Usage (1)

- DataProperty: hasTag

Data Property: hasTextDescription

<http://purl.org/webofneeds/model#hasTextDescription>

Annotations (2)

- comment "Textual description of the need. May contain #hashtags but no HTML, XHTML or other formatting." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Property Characteristics (1)

- Functional (hasTextDescription)

Usage (1)

- DataProperty: hasTextDescription

Object Property: hasTextDescription

<http://purl.org/webofneeds/model#hasTextDescription>

Annotations (2)

- comment "Textual description of the need. May contain #hashtags but no HTML, XHTML or other formatting." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Property Characteristics (1)

- Functional (hasTextDescription)

Domains (1)

- NeedContent

Ranges (1)

- string

Usage (1)

- ObjectProperty: hasTextDescription

Object Property: hasTimeSpecification

<http://purl.org/webofneeds/model#hasTimeSpecification>

Annotations (2)

- comment "Specifies when the Need object is available." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Domains (1)

- NeedModality

Ranges (1)

- TimeSpecification

Usage (1)

- ObjectProperty: hasTimeSpecification

Data Property: hasTimeStamp

<http://purl.org/webofneeds/model#hasTimeStamp>

Annotations (2)

- comment "The time and date when the event occurred." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Property Characteristics (1)

- Functional (hasTimeStamp)

Ranges (1)

- dateTimeStamp

Usage (1)

- DataProperty: hasTimeStamp

Data Property: hasUpperPriceLimit

<http://purl.org/webofneeds/model#hasUpperPriceLimit>

Annotations (2)

- comment "The upper price limit (only value, no currency)." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Domains (1)

- PriceSpecification

Ranges (1)

- float

Usage (1)

- DataProperty: hasUpperPriceLimit

Object Property: hasWeight

<http://purl.org/webofneeds/model#hasWeight>

Annotations (2)

- comment "Weight specified as a QuantitativeValue (specifies unit of measurement and value). " (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Superproperties (1)

- hasQuantitativeProperty

Usage (2)

- ObjectProperty: hasWeight
- hasWeight \hat{a} hasQuantitativeProperty

Object Property: hasWidth

<http://purl.org/webofneeds/model#hasWidth>

Annotations (2)

- comment "Width specified as a QuantitativeValue (specifies unit of measurement and value). " (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Superproperties (1)

- hasQuantitativeProperty

Usage (2)

- ObjectProperty: hasWidth
- hasWidth $\hat{=}$ hasQuantitativeProperty

Individual: Inactive

<http://purl.org/webofneeds/model#Inactive>

Annotations (2)

- comment "The inactive state. Needs do not communicate in this state. Intended to stop receiving messages for something not currently of interest." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Types (1)

- NeedState

Usage (1)

- Individual: Inactive

Datatype: integer

<http://www.w3.org/2001/XMLSchema#integer>

Usage (1)

- hasRecursTimes Range integer

Annotation Property: isDefinedBy

<http://www.w3.org/2000/01/rdf-schema#isDefinedBy>

Usage (75)

- <http://purl.org/dc/terms#created> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#Active> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#BasicNeedType> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#Closed> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#Connected> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#Connection> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#ConnectionContainer> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#ConnectionState> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#Critique> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#Demand> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#DoTogether> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#EventContainer> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#Facet> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#GroupFacet> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#Inactive> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#LocationSpecification> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#Need> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#NeedContent> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#NeedModality> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#NeedState> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#OwnerFacet> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#PriceSpecification> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#Region> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#RequestReceived> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#RequestSent> /* isDefinedBy <http://purl.org/webofneeds/model> */

- <http://purl.org/webofneeds/model#Suggested> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#Supply> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#TimeSpecification> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#WonOverActiveMq> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#WonOverSoapWs> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#WonProtocol> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#allowsMatchWith> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#embedSpinAsk> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasActiveMQNeedProtocolQueueName> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasActiveMQOwnerProtocolQueueName> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasAdditionalData> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasBasicNeedType> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasBrokerUri> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasConnectionState> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasConnections> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasContent> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasContentDescription> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasCurrency> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasDepth> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasEndTime> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasEventContainer> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasFacet> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasHeight> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasISOCODE> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasLocationSpecification> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasLowerPriceLimit> /* isDefinedBy <http://purl.org/webofneeds/model> */

- <http://purl.org/webofneeds/model#hasMatcherProtocolEndpoint> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasNeedModality> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasNeedProtocolEndpoint> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasOriginator> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasOwner> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasOwnerProtocolEndpoint> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasPriceSpecification> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasQuantitativeProperty> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasRecursIn> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasRecursInfiniteTimes> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasRecursTimes> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasRemoteConnection> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasRemoteFacet> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasStartTime> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasTag> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasTextDescription> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasTimeSpecification> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasTimeStamp> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasUpperPriceLimit> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasWeight> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#hasWidth> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#isInState> /* isDefinedBy <http://purl.org/webofneeds/model> */
- <http://purl.org/webofneeds/model#supportsWonProtocolImpl> /* isDefinedBy <http://purl.org/webofneeds/model> */
- http://www.w3.org/2003/01/geo/wgs84_pos#latitude /* isDefinedBy <http://purl.org/webofneeds/model> */

Object Property: isInState

<http://purl.org/webofneeds/model#isInState>

Annotations (2)

- comment "Defines the Need object's state." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Property Characteristics (1)

- Functional (isInState)

Domains (1)

- Need

Ranges (1)

- NeedState

Usage (1)

- ObjectProperty: isInState

Annotation Property: label

<http://www.w3.org/2000/01/rdf-schema#label>

Usage (1)

- `http://purl.org/webofneeds/model#Need /* label "Need" () */`

Data Property: latitude

http://www.w3.org/2003/01/geo/wgs84_pos#latitude

Annotations (1)

- isDefinedBy <http://purl.org/webofneeds/model>

Property Characteristics (1)

- Functional (latitude)

Domains (1)

- Point

Ranges (1)

- float

Usage (1)

- DataProperty: latitude

Class: LocationSpecification

<http://purl.org/webofneeds/model#LocationSpecification>

Annotations (2)

- comment "Specifies where a Need is available." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Usage (2)

- Class: LocationSpecification
- hasLocationSpecification Range LocationSpecification

Data Property: longitude

http://www.w3.org/2003/01/geo/wgs84_pos#longitude

Property Characteristics (1)

- Functional (longitude)

Domains (1)

- Point

Ranges (1)

- float

Usage (1)

- DataProperty: longitude

Class: Need

<http://purl.org/webofneeds/model#Need>

Annotations (3)

- comment "A need is an online entity controlled by a person or organization. Its purpose is to be connected to other such needs via Connections, so it can be said that it represents the need to interact with others. It specifies a content - what the need is about, which may be something that is offered for sale, sought for rental etc." (en)
- isDefinedBy <http://purl.org/webofneeds/model>
- label "Need" ()

Usage (8)

- Class: Need
- hasBasicNeedType Domain Need
- hasContent Domain Need
- hasFacet Domain Need
- hasNeedModality Domain Need
- hasOwner Domain Need
- isInState Domain Need
- supportsWonProtocolImpl Domain Need

Class: NeedContent

<http://purl.org/webofneeds/model#NeedContent>

Annotations (2)

- comment "Whatever the Need is about." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Usage (5)

- Class: NeedContent
- hasContentDescription Domain NeedContent
- hasQuantitativeProperty Domain NeedContent
- hasTextDescription Domain NeedContent
- hasContent Range NeedContent

Class: NeedModality

<http://purl.org/webofneeds/model#NeedModality>

Annotations (2)

- comment "Defines the 'modality' of the need; in contrast to the NeedContent (the 'what') this should define where, when, and how" (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Usage (5)

- Class: NeedModality
- hasLocationSpecification Domain NeedModality
- hasPriceSpecification Domain NeedModality
- hasTimeSpecification Domain NeedModality
- hasNeedModality Range NeedModality

Class: NeedState

<http://purl.org/webofneeds/model#NeedState>

Annotations (2)

- comment "The Need's state." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Disjoints (2)

Active, Inactive

Usage (4)

- Class: NeedState
- Active: NeedState
- Inactive: NeedState
- isInState Range NeedState

Class: Nothing

<http://www.w3.org/2002/07/owl#Nothing>

Individual: OwnerFacet

<http://purl.org/webofneeds/model#OwnerFacet>

Annotations (2)

- comment "The Default facet. All messages and events are forwarded to the owner, no action is taken automatically." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Types (1)

- Facet

Usage (1)

- Individual: OwnerFacet

Datatype: PlainLiteral

<http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral>

Usage (72)

- <http://purl.org/webofneeds/model#Active> /* comment "The active state. " (en) */
- <http://purl.org/webofneeds/model#BasicNeedType> /* comment "Superclass for types of needs. Used primarily to indicate which types of needs are compatible with each other for sending hints." (en) */
- <http://purl.org/webofneeds/model#Closed> /* comment "The closed state. No Messages are forwarded in this state. Re-opening a connection is possible." (en) */
- <http://purl.org/webofneeds/model#Connected> /* comment "The connected state. Messages are forwarded to/from the owner." (en) */
- <http://purl.org/webofneeds/model#Connection> /* comment "Represents a Connection to between two Needs. Whenever two Needs are connected, each Need creates a dedicated Connection object which encapsulate all information about the connection." (en) */
- <http://purl.org/webofneeds/model#ConnectionContainer> /* comment "Container for Connections." (en) */
- <http://purl.org/webofneeds/model#ConnectionState> /* comment "A Connection's state." (en) */
- <http://purl.org/webofneeds/model#Critique> /* comment "Indicates that the Need owner is dissatisfied with something, which should be described in more detail through NeedDescription and NeedModality. The owner may be interested in doing something about the problem, so matching services are advised to provide hints to similar Critique Needs." (en) */
- <http://purl.org/webofneeds/model#Demand> /* comment "Indicates that the Need owner wants to obtain, borrow, rent, etc. something or consume a service. Hints to Supply objects are expected." (en) */
- <http://purl.org/webofneeds/model#DoTogether> /* comment "Indicates that the Need owner is interested in social activity of some sort. Hints to other DoTogether Needs are expected." (en) */
- <http://purl.org/webofneeds/model#EventContainer> /* comment "Container for Events." (en) */
- <http://purl.org/webofneeds/model#Facet> /* comment "Facets are behaviours a Need can choose to support. Connections have a Facet; Needs can be connected through multiple Connections if they have different Facets." (en) */
- <http://purl.org/webofneeds/model#GroupFacet> /* comment "The group facet. Messages are forwarded to all connections with this facet." (en) */
- <http://purl.org/webofneeds/model#Inactive> /* comment "The inactive state. Needs do not communicate in this state. Intended to stop receiving messages for something not currently of interest." (en) */
- <http://purl.org/webofneeds/model#LocationSpecification> /* comment "Specifies where a Need is available." (en) */
- <http://purl.org/webofneeds/model#Need> /* comment "A need is an online entity controlled by a person or organization. Its purpose is to be connected to other such needs via Connections, so it can be said that it represents the need to interact with others. It specifies a content - what the need is about, which may be something that is offered for sale, sought for rental etc." (en) */
- <http://purl.org/webofneeds/model#Need> /* label "Need" () */
- <http://purl.org/webofneeds/model#NeedContent> /* comment "Whatever the Need is about." (en) */

- <http://purl.org/webofneeds/model#NeedModality> /* comment "Defines the 'modality' of the need; in contrast to the NeedContent (the 'what') this should define where, when, and how" (en) */
- <http://purl.org/webofneeds/model#NeedState> /* comment "The Need's state." (en) */
- <http://purl.org/webofneeds/model#OwnerFacet> /* comment "The Default facet. All messages and events are forwarded to the owner, no action is taken automatically." (en) */
- <http://purl.org/webofneeds/model#PriceSpecification> /* comment "Specifies the price." (en) */
- <http://purl.org/webofneeds/model#RequestReceived> /* comment "Half-open state. The connection has been opened by the remote counterpart but not yet been accepted by the local end." (en) */
- <http://purl.org/webofneeds/model#RequestSent> /* comment "Half-open state. The Connection has been requested by the local end but not yet been accepted by the remote counterpart." (en) */
- <http://purl.org/webofneeds/model#Suggested> /* comment "Suggested state. The Connection has been created through a Hint Event but not yet been opened by either of the sides." (en) */
- <http://purl.org/webofneeds/model#Supply> /* comment "Indicates that the Need owner wants to sell, lend or give away something. Hints to Demand Needs are expected." (en) */
- <http://purl.org/webofneeds/model#TimeSpecification> /* comment "Specifies when a Need is available. Matching services should try to find Needs with TimeSpecifications that overlap with this needs' TimeSpecifications." (en) */
- <http://purl.org/webofneeds/model#WonOverActiveMq> /* comment "The Web of Needs protocol implementation that uses ActiveMQ." (en) */
- <http://purl.org/webofneeds/model#WonOverSoapWs> /* comment "The Web of Needs Protocol implementation that uses SOAP Webservices." (en) */
- <http://purl.org/webofneeds/model#WonProtocol> /* comment "Superclass for Web of Needs protocol implementations. " (en) */
- <http://purl.org/webofneeds/model#allowsMatchWith> /* comment "Connects two basic need types to indicate that they are suitable for a match." (en) */
- <http://purl.org/webofneeds/model#embedSpinAsk> /* comment "allows to attach a SPIN ASK clause to a content description, restricting possible matches" (en) */
- <http://purl.org/webofneeds/model#hasActiveMQNeedProtocolQueueName> /* comment "Name of the ActiveMQ queue used for the need protocol." (en) */
- <http://purl.org/webofneeds/model#hasActiveMQOwnerProtocolQueueName> /* comment "Name of the ActiveMQ queue used for the owner protocol." (en) */
- <http://purl.org/webofneeds/model#hasBasicNeedType> /* comment "Specifies the basic need type of a need. This is primarily intended as a guidance for matching services." (en) */
- <http://purl.org/webofneeds/model#hasBrokerUri> /* comment "Specifies the ActiveMQ broker URI to be used to contact the need." (en) */
- <http://purl.org/webofneeds/model#hasConnectionState> /* comment "Indicates the state in which the Connection object is." (en) */
- <http://purl.org/webofneeds/model#hasConnections> /* comment "Links the Need object to its connections." (en) */
- <http://purl.org/webofneeds/model#hasContent> /* comment "Links the Need entity with the node representing its 'content'." (en) */
- <http://purl.org/webofneeds/model#hasContentDescription> /* comment "Connects the need content node with a node that is intended to be connected to an arbitrary RDF graph used to describe the need content with any vocabulary or ontology." (en) */
- <http://purl.org/webofneeds/model#hasCurrency> /* comment "The currency for all prices given using the ISO 4217 standard (3 characters)." (en) */
- <http://purl.org/webofneeds/model#hasDepth> /* comment "Depth specified as a QuantitativeValue (specifies unit of measurement and value). " (en) */

- <http://purl.org/webofneeds/model#hasEndTime> /* comment "The end time as an xsd:dateTimeStamp." (en) */
- <http://purl.org/webofneeds/model#hasEventContainer> /* comment "Links the Connection object to a container containing connection events (messages)." (en) */
- <http://purl.org/webofneeds/model#hasFacet> /* comment "Indicates that a need or connection supports the specified facet (=behaviour)." (en) */
- <http://purl.org/webofneeds/model#hasHeight> /* comment "Height specified as a QuantitativeValue (specifies unit of measurement and value). " (en) */
- <http://purl.org/webofneeds/model#hasISOCode> /* comment "Specifies the ISO region code as defined in ISO 3166-2." (en) */
- <http://purl.org/webofneeds/model#hasLocationSpecification> /* comment "Links a NeedDescription entity to a description of its location." (en) */
- <http://purl.org/webofneeds/model#hasLowerPriceLimit> /* comment "The lower price limit (only value, no currency)." (en) */
- <http://purl.org/webofneeds/model#hasMatcherProtocolEndpoint> /* comment "Points to the matcherProtocol webservice endpoint of the need. I.e., matchers can communicate with the need through this endpoint." (en) */
- <http://purl.org/webofneeds/model#hasNeedModality> /* comment "Defines the 'modality' of the need; in contrast to the content (the 'what') this should define where, when, and how" (en) */
- <http://purl.org/webofneeds/model#hasNeedProtocolEndpoint> /* comment "Points to the needProtocol webservice endpoint of the need. I.e., won nodes can communicate with the need through this endpoint." (en) */
- <http://purl.org/webofneeds/model#hasOriginator> /* comment "The entity (Need, Connection, or Service - eg. matching service) that originated the event." (en) */
- <http://purl.org/webofneeds/model#hasOwner> /* comment "Specifies who controls the need." (en) */
- <http://purl.org/webofneeds/model#hasOwnerProtocolEndpoint> /* comment "Points to the ownerProtocol webservice endpoint of the need. I.e., owner applications can communicate with the need through this endpoint." (en) */
- <http://purl.org/webofneeds/model#hasPriceSpecification> /* comment "Specifies the price of a need." (en) */
- <http://purl.org/webofneeds/model#hasQuantitativeProperty> /* comment "Superproperty for quantitative properties. Some are already defined in the ontology." (en) */
- <http://purl.org/webofneeds/model#hasRecursIn> /* comment "If set, specifies the interval of recurrence measured from the startTime, in xsd:duration." (en) */
- <http://purl.org/webofneeds/model#hasRecursInfiniteTimes> /* comment "Indicates that the TimeSpecification is repeated until the end of time." (en) */
- <http://purl.org/webofneeds/model#hasRecursTimes> /* comment "Specifies how often the interval recurs." (en) */
- <http://purl.org/webofneeds/model#hasRemoteConnection> /* comment "Links a Connection object to its remote counterpart." (en) */
- <http://purl.org/webofneeds/model#hasRemoteFacet> /* comment "Indicates that a remote need or remote connection supports the specified facet (=behaviour) or specifies the remote facet to connect with." (en) */
- <http://purl.org/webofneeds/model#hasStartTime> /* comment "The start time as an xsd:dateTimeStamp." (en) */
- <http://purl.org/webofneeds/model#hasTag> /* comment "Specifies a tag for the need content." (en) */
- <http://purl.org/webofneeds/model#hasTextDescription> /* comment "Textual description of the

need. May contain #hashtags but no HTML, XHTML or other formatting." (en) */

- <http://purl.org/webofneeds/model#hasTimeSpecification> /* comment "Specifies when the Need object is available." (en) */
- <http://purl.org/webofneeds/model#hasTimeStamp> /* comment "The time and date when the event occurred." (en) */
- <http://purl.org/webofneeds/model#hasUpperPriceLimit> /* comment "The upper price limit (only value, no currency)." (en) */
- <http://purl.org/webofneeds/model#hasWeight> /* comment "Weight specified as a QuantitativeValue (specifies unit of measurement and value). " (en) */
- <http://purl.org/webofneeds/model#hasWidth> /* comment "Width specified as a QuantitativeValue (specifies unit of measurement and value). " (en) */
- <http://purl.org/webofneeds/model#isInState> /* comment "Defines the Need object's state." (en) */
- <http://purl.org/webofneeds/model#supportsWonProtocolImpl> /* comment "Connects a Need object with a description of a WON protocol it supports." (en) */

Class: Point

http://www.w3.org/2003/01/geo/wgs84_pos#Point

Superclasses (1)

- LocationSpecification

Usage (3)

- Class: Point
- latitude Domain Point
- longitude Domain Point

Class: PriceSpecification

<http://purl.org/webofneeds/model#PriceSpecification>

Annotations (2)

- comment "Specifies the price." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Usage (5)

- Class: PriceSpecification
- hasCurrency Domain PriceSpecification
- hasPriceSpecification Range PriceSpecification
- hasLowerPriceLimit Domain PriceSpecification
- hasUpperPriceLimit Domain PriceSpecification

Class: QuantitativeValue

<http://purl.org/goodrelations/v1#QuantitativeValue>

Usage (2)

- Class: QuantitativeValue
- hasQuantitativeProperty Range QuantitativeValue

Class: Region

<http://purl.org/webofneeds/model#Region>

Annotations (1)

- isDefinedBy <http://purl.org/webofneeds/model>

Superclasses (1)

- LocationSpecification

Usage (2)

- Class: Region
- hasISOCODE Domain Region

Individual: RequestReceived

<http://purl.org/webofneeds/model#RequestReceived>

Annotations (2)

- comment "Half-open state. The connection has been opened by the remote counterpart but not yet been accepted by the local end." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Types (1)

- ConnectionState

Usage (1)

- Individual: RequestReceived

Individual: RequestSent

<http://purl.org/webofneeds/model#RequestSent>

Annotations (2)

- comment "Half-open state. The Connection has been requested by the local end but not yet been accepted by the remote counterpart." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Types (1)

- ConnectionState

Usage (1)

- Individual: RequestSent

Class: string

<http://www.w3.org/2001/XMLSchema#string>

Usage (5)

- Class: string
- hasCurrency Range string
- hasISOCODE Range string
- hasTag Range string
- hasTextDescription Range string

Datatype: string

<http://www.w3.org/2001/XMLSchema#string>

Usage (1)

- <http://purl.org/webofneeds/model#hasAdditionalData> /* comment "Contains additional information in form of an RDF graph about an event." (string) */

Individual: Suggested

<http://purl.org/webofneeds/model#Suggested>

Annotations (2)

- comment "Suggested state. The Connection has been created through a Hint Event but not yet been opened by either of the sides." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Types (1)

- ConnectionState

Usage (1)

- Individual: Suggested

Individual: Supply

<http://purl.org/webofneeds/model#Supply>

Annotations (2)

- comment "Indicates that the Need owner wants to sell, lend or give away something. Hints to Demand Needs are expected." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Types (1)

- BasicNeedType

Usage (3)

- Individual: Supply
- Demand allowsMatchWith Supply
- Supply allowsMatchWith Demand

Object Property: supportsWonProtocolImpl

<http://purl.org/webofneeds/model#supportsWonProtocolImpl>

Annotations (2)

- comment "Connects a Need object with a description of a WON protocol it supports." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Domains (1)

- Need

Ranges (1)

- WonProtocol

Usage (1)

- ObjectProperty: supportsWonProtocolImpl

Class: Tag

<http://rdfs.org/sioc/types#Tag>

Usage (1)

- Class: Tag

Class: TimeSpecification

<http://purl.org/webofneeds/model#TimeSpecification>

Annotations (2)

- comment "Specifies when a Need is available. Matching services should try to find Needs with TimeSpecifications that overlap with this needs' TimeSpecifications." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Usage (7)

- Class: TimeSpecification
- hasTimeSpecification Range TimeSpecification
- hasEndTime Domain TimeSpecification
- hasRekursIn Domain TimeSpecification
- hasRekursInfiniteTimes Domain TimeSpecification
- hasRekursTimes Domain TimeSpecification
- hasStartTime Domain TimeSpecification

Annotation Property: title

<http://purl.org/dc/elements/1.1/title>

Data Property: title

<http://purl.org/dc/terms/title>

Usage (1)

- DataProperty: title

Data Property: topDataProperty

<http://www.w3.org/2002/07/owl#topDataProperty>

Usage (1)

- created $\hat{=}$ topDataProperty

Object Property: topObjectProperty

<http://www.w3.org/2002/07/owl#topObjectProperty>

Usage (1)

- hasNeedProtocolEndpoint $\hat{=}$ topObjectProperty

Class: WonOverActiveMq

<http://purl.org/webofneeds/model#WonOverActiveMq>

Annotations (2)

- comment "The Web of Needs protocol implementation that uses ActiveMQ." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Superclasses (1)

- WonProtocol

Usage (2)

- Class: WonOverActiveMq
- hasBrokerUri Domain WonOverActiveMq

Class: WonOverSoapWs

<http://purl.org/webofneeds/model#WonOverSoapWs>

Annotations (2)

- comment "The Web of Needs Protocol implelementation that uses SOAP Webservices." (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Superclasses (1)

- WonProtocol

Usage (1)

- Class: WonOverSoapWs

Class: WonProtocol

<http://purl.org/webofneeds/model#WonProtocol>

Annotations (2)

- comment "Superclass for Web of Needs protocol implementations. " (en)
- isDefinedBy <http://purl.org/webofneeds/model>

Usage (2)

- Class: WonProtocol
- supportsWonProtocolImpl Range WonProtocol