

### Core module - Basic Types and Enumerations

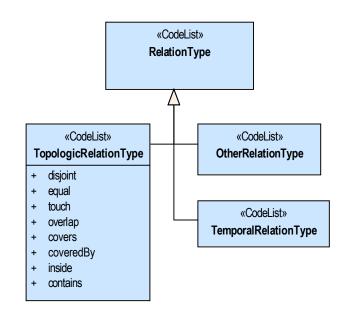
#### «enumeration» RelativeToTerrain

entirelyAboveTerrain substantiallyAboveTerrain substantiallyAboveAndBelowTerrain substantiallyBelowTerrain entirelyBelowTerrain

#### «enumeration»

#### RelativeToWater

entirelyAboveWaterSurface substantiallyAboveWaterSurface substantiallyAboveAndBelowWaterSurface substantiallyBelowWaterSurface entirelyBelowWaterSurface temporarilyAboveAndBelowWaterSurface



inv: IntegerBetween0and3.allInstances() «BasicType»  $\rightarrow$  for All(p|p>= 0 and p<= 3) IntegerBetween0and3 /\* Value has to be greater or equal than 0 and less or equal than 3 \*/

«BasicType» DoubleBetween0and1

inv: DoubleBetween0and1.allInstances()  $\rightarrow$  for All(p|p>=0 and p<=1) /\* Value has to be greater or equal than 0 and less or equal than 1. \*/

## «BasicType» DoubleBetween0and1List

list: DoubleBetween0and1 {sequence}

## «CodeList»

- QualifiedVolumeValue grossVolume
- netVolume

## «Codel ist»

#### QualifiedAreaValue

- surfaceArea
- wallSurfaceArea
- sharedWallSurfaceArea
- roofSurfaceArea
- wallWindowArea
- roofWindowArea
- wallGlazingArea

# «dataType»

## «Property»

- numberOfOccupants: Integer
- interval: IntervalValue [0..1]
- occupantType: OccupantTypeValue [0..1]

## «Codel ist»

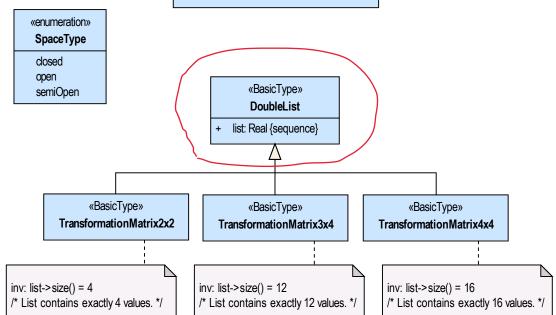
### IntervalValue

- weekday
- weekend
- weekday 9to12
- weekday\_12to17
- weekday\_8to16
- daytime
- nighttime
- daily\_9to12

# Occupancy

### «Codel ist» OccupantTypeValue

- residents
- workers
- students
- patients
- visitors
- othersOrCombination



### Core module - Basic Types and Enumerations

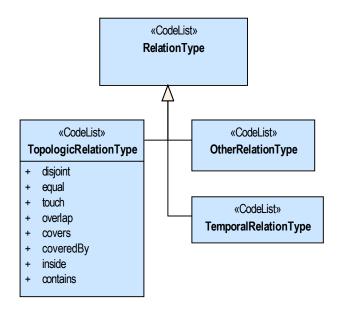
#### «enumeration» RelativeToTerrain

entirelyAboveTerrain substantiallyAboveTerrain substantiallyAboveAndBelowTerrain substantiallyBelowTerrain entirelyBelowTerrain

#### «enumeration»

### RelativeToWater

entirelyAboveWaterSurface substantiallyAboveWaterSurface substantiallyAboveAndBelowWaterSurface substantiallyBelowWaterSurface entirelyBelowWaterSurface temporarilyAboveAndBelowWaterSurface



inv: IntegerBetween0and3.allInstances()  $\rightarrow$  for All(p|p>= 0 and p<= 3) /\* Value has to be greater or equal than 0 and less or equal than 3 \*/

«BasicType» DoubleBetween0and1

«BasicType»

IntegerBetween0and3

inv: DoubleBetween0and1.allInstances()  $\rightarrow$  for All(p|p>=0 and p<=1) /\* Value has to be greater or equal than 0 and less or equal than 1. \*/

## «BasicType» DoubleBetween0and1List

list: DoubleBetween0and1 {sequence}

## «CodeList»

- QualifiedVolumeValue
- grossVolume
- netVolume

## «Codel ist»

- QualifiedAreaValue
- surfaceArea
- wallSurfaceArea
- sharedWallSurfaceArea
- roofSurfaceArea
- wallWindowArea
- roofWindowArea
- wallGlazingArea

# «dataType»

## «Property»

## «Codel ist»

### IntervalValue

- weekday
- weekend
- weekday 9to12
- weekday\_12to17
- weekday\_8to16
- daytime
- nighttime
- daily\_9to12

# Occupancy

- numberOfOccupants: Integer
- interval: IntervalValue [0..1]
- occupantType: OccupantTypeValue [0..1]

### «Codel ist» OccupantTypeValue

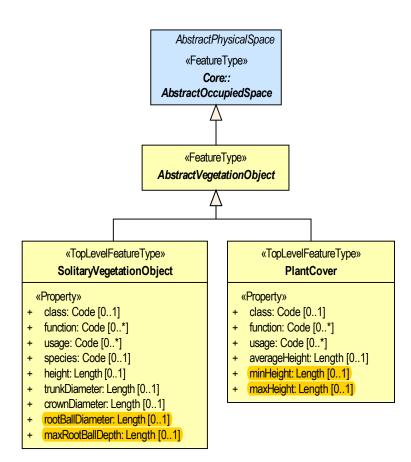
- residents
- workers
- students
- patients
- visitors
- othersOrCombination

/\* List contains exactly 4 values. \*/

## «enumeration» SpaceType closed «type» open basicTypes::doubleList semiOpen + list: Sequence<Real> «BasicType» «BasicType» «BasicType» TransformationMatrix2x2 TransformationMatrix3x4 TransformationMatrix4x4 inv: list->size() = 4 inv: list->size() = 12 inv: list->size() = 16 /\* List contains exactly 16 values. \*/

/\* List contains exactly 12 values. \*/

## Vegetation module



## Vegetation module

