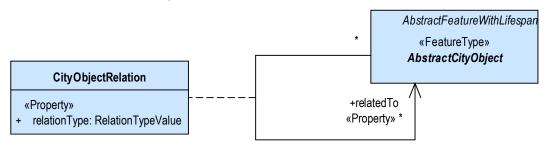
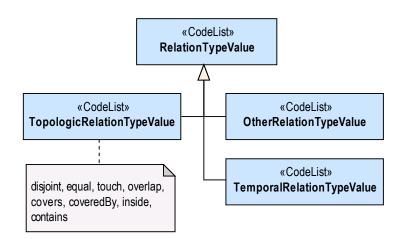
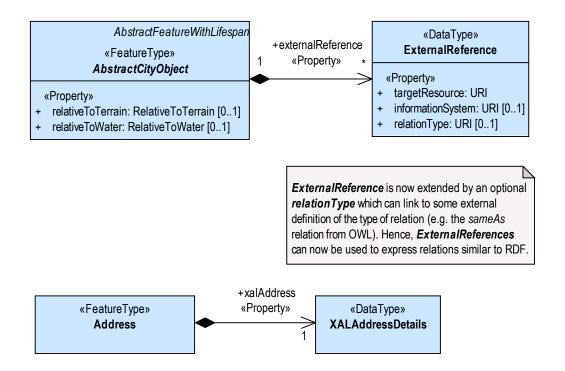


Core module - City object relations

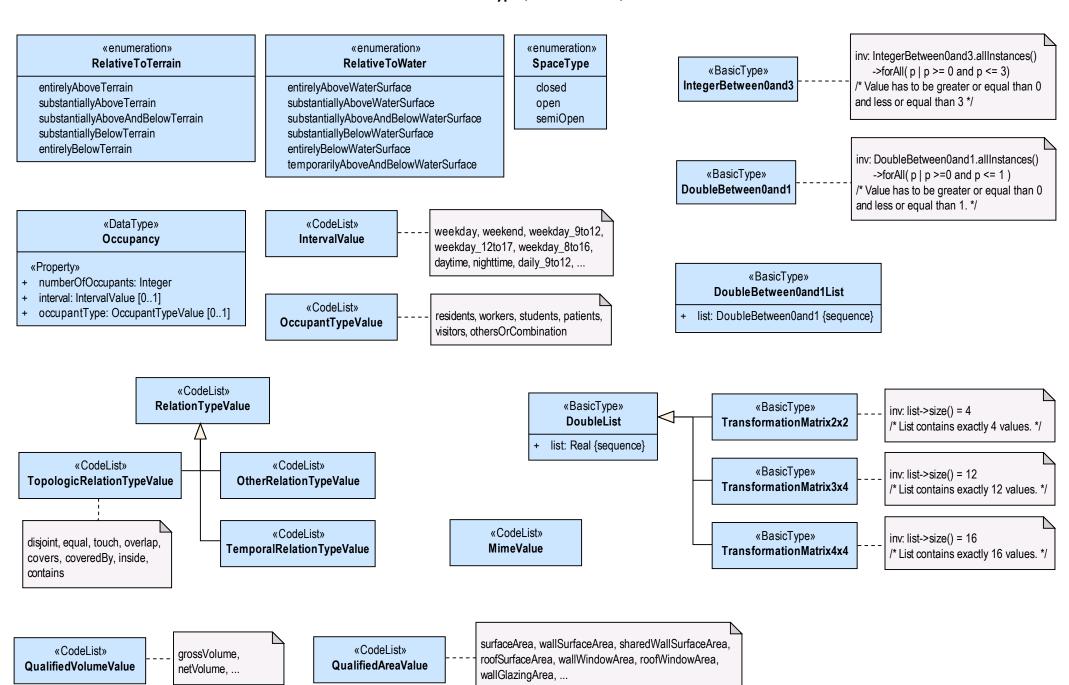


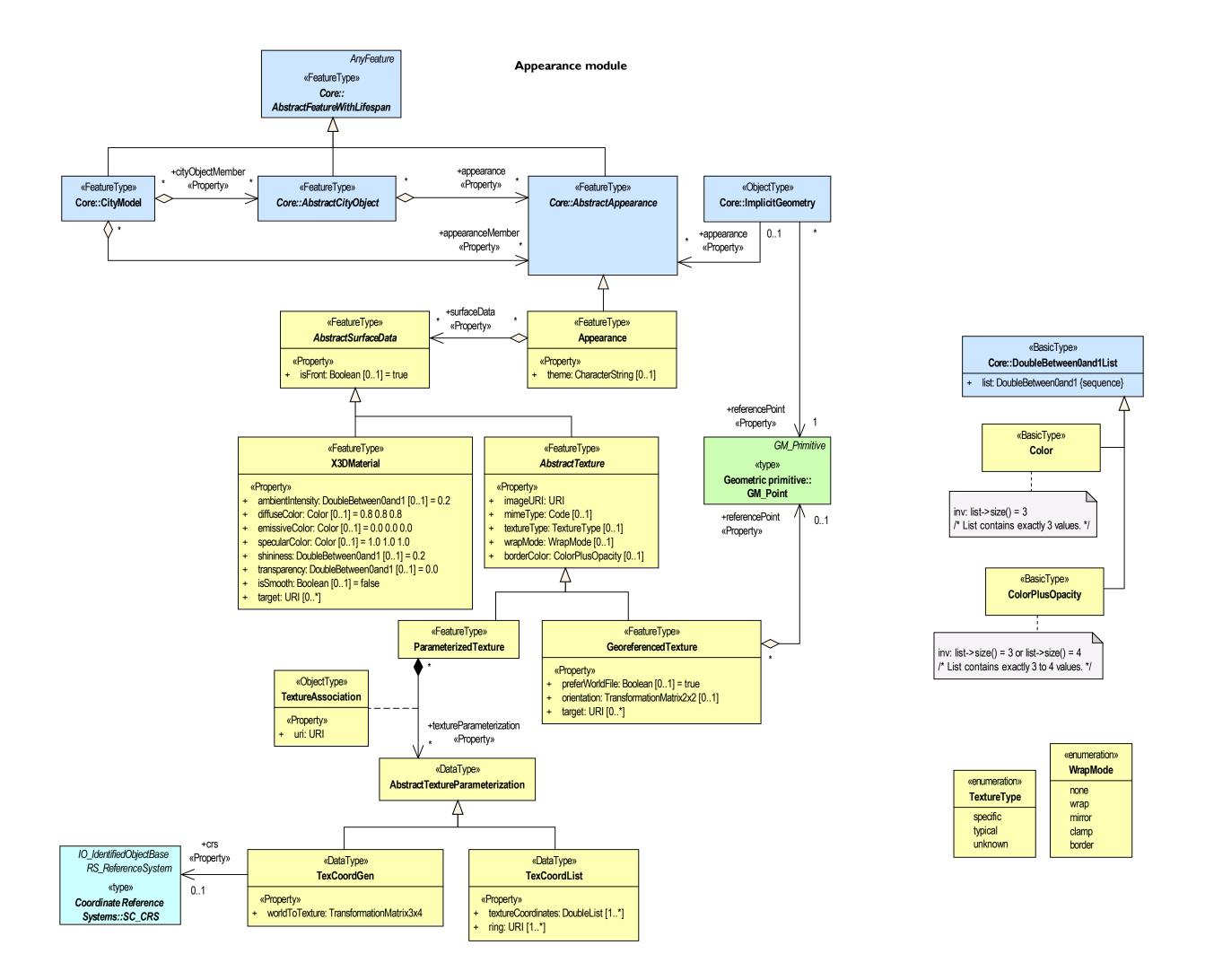


Core module - Miscellaneous

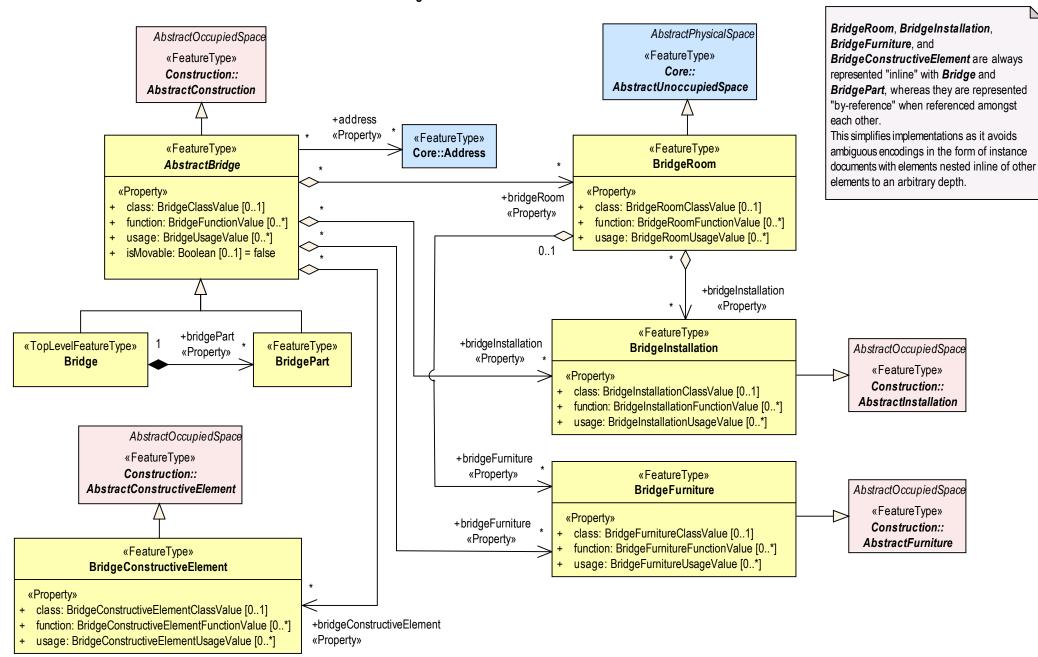


Core module - Basic Types, Enumerations, and Code lists





Bridge module



Bridge module - Code lists

«CodeList»

BridgeClassValue

«CodeList»
BridgeFurnitureClassValue

«CodeList»
BridgeInstallationClassValue

«CodeList»

BridgeFunctionValue

«CodeList»
BridgeFurnitureFunctionValue

«CodeList»
BridgeInstallationFunctionValue

«CodeList»
BridgeUsageValue

«CodeList»
BridgeFurnitureUsageValue

«CodeList»
BridgeInstallationUsageValue

«CodeList»
BridgeRoomClassValue

«CodeList»

BridgeConstructiveElementClassValue

«CodeList»

BridgeRoomFunctionValue

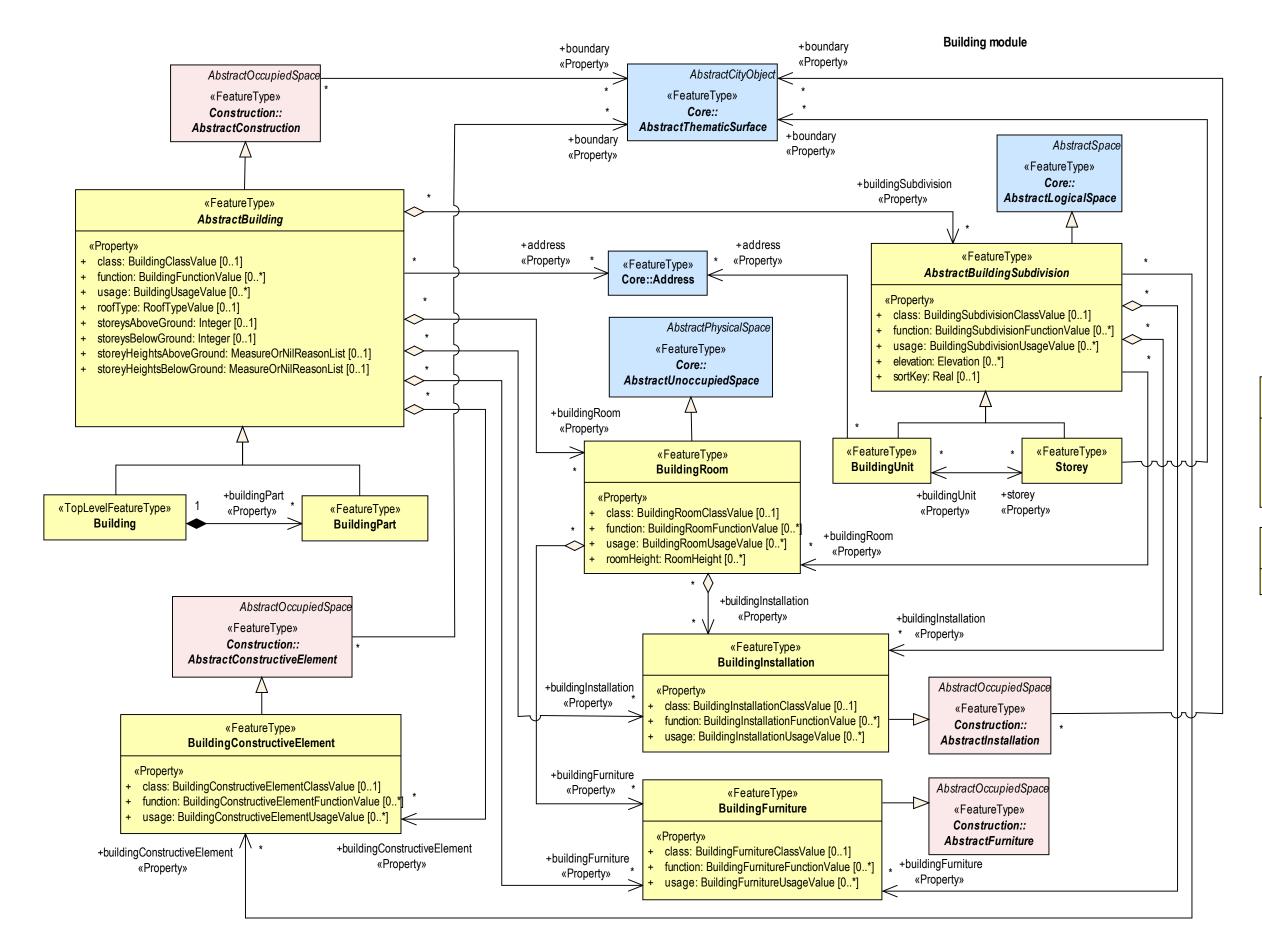
 $\label{eq:codeList} $$\ensuremath{\mathsf{WCodeList}}$ \\ \textbf{BridgeConstructiveElementFunctionValue}$

«CodeList»

BridgeRoomUsageValue

«CodeList»

BridgeConstructiveElementUsageValue



BuildingRoom, BuildingInstallation,
BuildingFurniture, and
BuildingConstructiveElement are always
represented "inline" with Building and
BuildingPart, whereas they are represented
"by-reference" when referenced amongst each other.

This simplifies implementations as it avoids ambiguous encodings in the form of instance documents with elements nested inline of other elements to an arbitrary depth.

«DataType» RoomHeight

«Property»

- + highReference: RoomElevationReferenceValue
- lowReference: RoomElevationReferenceValue
- status: HeightStatusValue
- value: Length

«enumeration»

RoomElevationReferenceValue

tbd

Building module - Code lists

«CodeList»

BuildingClassValue

«CodeList»

BuildingInstallationClassValue

«CodeList»

BuildingFurnitureClassValue

«CodeList»
RoofTypeValue

«CodeList»

BuildingFunctionValue

«CodeList»

BuildingInstallationFunctionValue

«CodeList»

BuildingFurnitureFunctionValue

«CodeList»

BuildingUsageValue

«CodeList»

BuildingInstallationUsageValue

«CodeList»

BuildingFurnitureUsageValue

«CodeList»

BuildingRoomClassValue

«CodeList»

BuildingConstructiveElementClassValue

«CodeList»

BuildingSubdivisionClassValue

«CodeList»

BuildingRoomFunctionValue

 $\label{eq:CodeList} $$ \mbox{BuildingConstructiveElementFunctionValue} $$$

«CodeList» **BuildingSubdivisionFunctionValue**

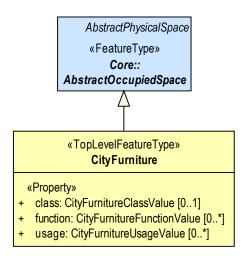
«CodeList»

BuildingRoomUsageValue

 $\label{eq:codeList} $$\operatorname{BuildingConstructiveElementUsageValue}$$

«CodeList» **BuildingSubdivisionUsageValue**

CityFurniture module



CityFurniture module - Code lists

«CodeList»

CityFurnitureClassValue

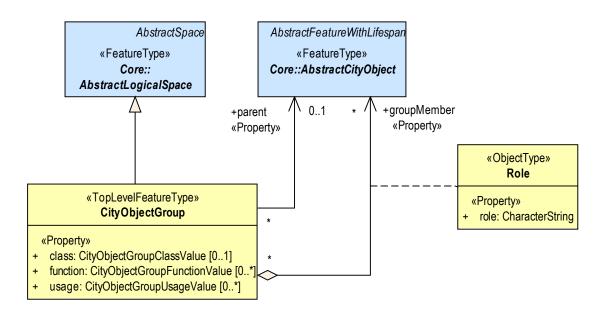
«CodeList»

CityFurnitureFunctionValue

«CodeList»

CityFurnitureUsageValue

CityObjectGroup module



CityObjectGroup module - Code lists

«CodeList»
CityObjectGroupClassValue

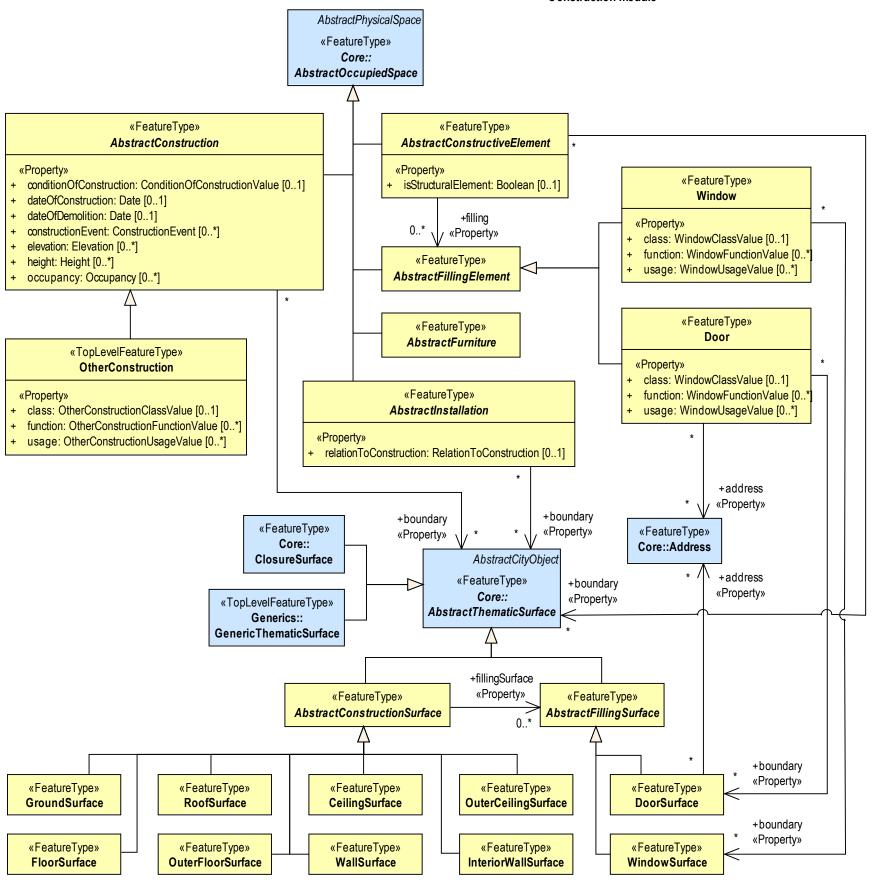
«CodeList»

CityObjectGroupFunctionValue

«CodeList»

CityObjectGroupUsageValue

Construction module



«enumeration»

ConditionOfConstructionValue

declined demolished functional projected ruin underConstruction

«enumeration» RelationToConstruction

inside outside bothInsideAndOutside

«DataType» Elevation

«Property»

- elevationReference: ElevationReferenceValue
- + elevationValue: DirectPosition

«DataType» **Height**

- «Property»
- highReference: ElevationReferenceValue
- lowReference: ElevationReferenceValue
- status: HeightStatusValue
- value: Length

«enumeration» ElevationReferenceValue

aboveGroundEnvelope bottomOfConstruction entrancePoint generalEave generalGround generalRoof generalRoofEdge highestEave highestGroundPoint highestPoint highestRoofEdge lowestEave lowestFloorAboveGround lowestGroundPoint

«enumeration» HeightStatusValue

estimated measured

Reference values for heights below ground will be added.

«DataType» ConstructionEvent

- «Property»
- event: EventValue

IowestRoofEdge

topOfConstruction

- dateOfEvent: Date
- description: CharacterString [0..1]

Construction module - Code lists

«CodeList»

OtherConstructionClassValue

«CodeList»
WindowClassValue

«CodeList»

DoorClassValue

«CodeList»
WindowFunctionValue

«CodeList»

DoorFunctionValue

 $\label{eq:codeList} $$\operatorname{\textbf{OtherConstructionFunctionValue}}$$

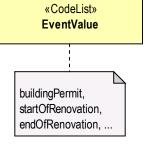
ndowrunctionvalue

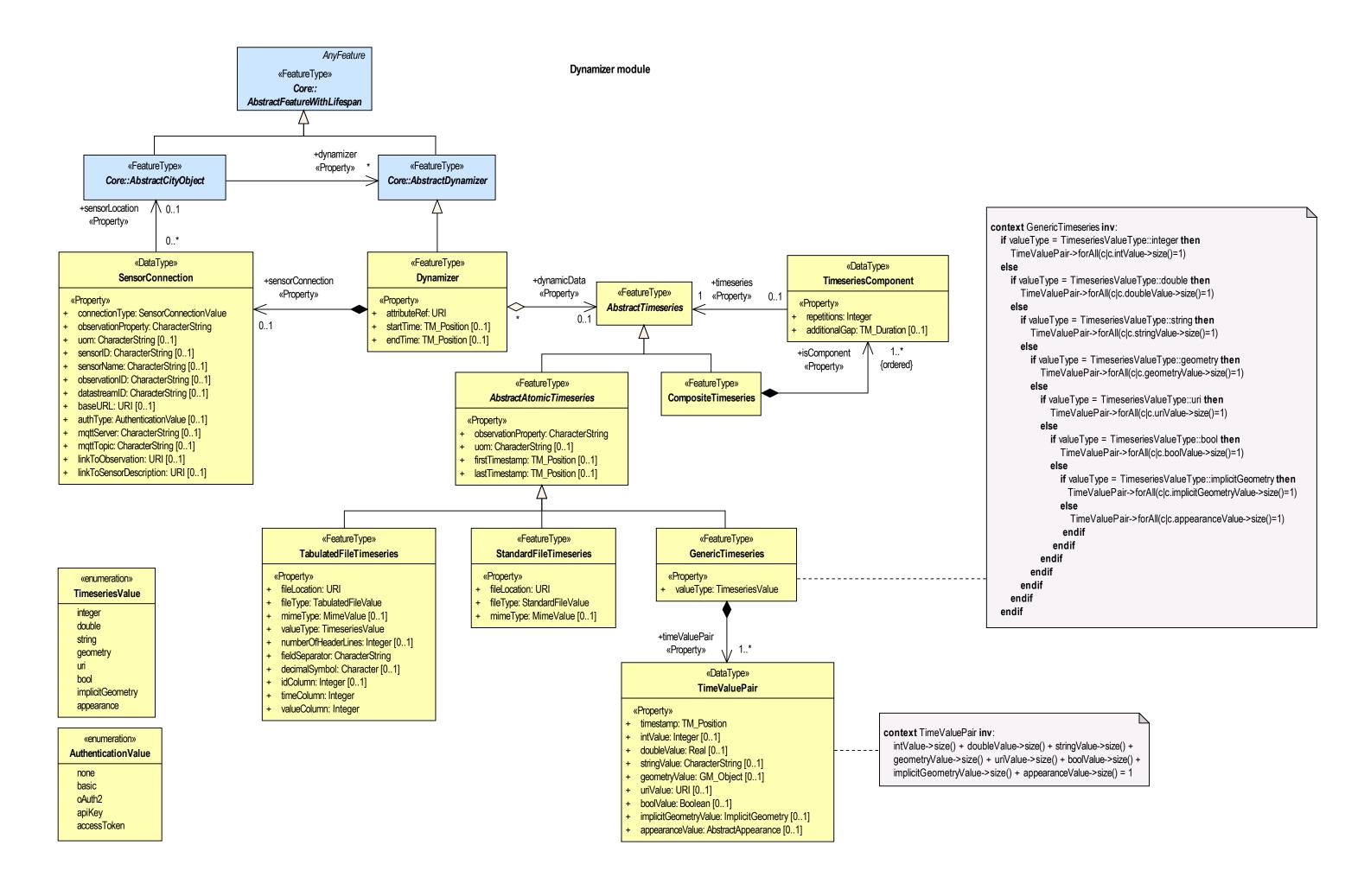
«CodeList»

DoorUsageValue

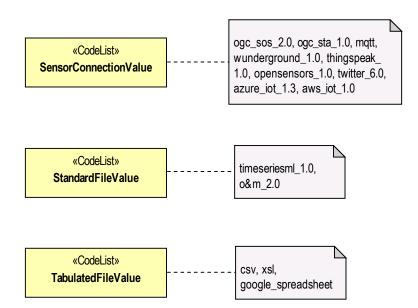
«CodeList»
OtherConstructionUsageValue

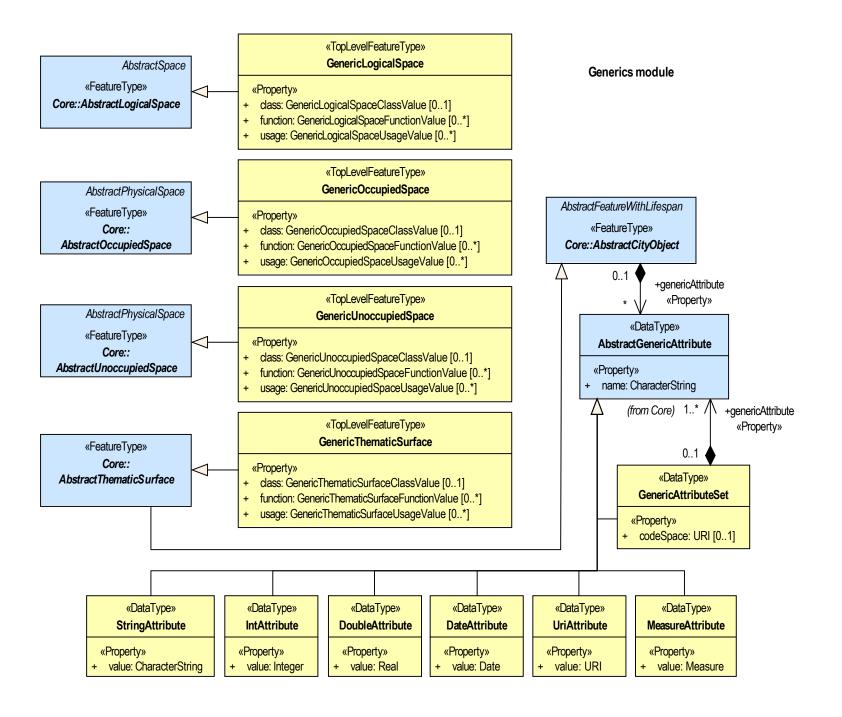
«CodeList» WindowUsageValue





Dynamizer module - Code lists





Generics module - Code lists

«CodeList»

GenericLogicalSpaceClassValue

«CodeList»

GenericOccupiedSpaceClassValue

«CodeList» «CodeList»

GenericUnoccupiedSpaceClassValue GenericThematicSurfaceClassValue

«CodeList»

GenericLogicalSpaceFunctionValue

«CodeList»

GenericOccupiedSpaceFunctionValue

«CodeList» «CodeList»

GenericUnoccupiedSpaceFunctionValue GenericThematicSurfaceFunctionValue

«CodeList»

GenericLogicalSpaceUsageValue

«CodeList»

GenericOccupiedSpaceUsageValue

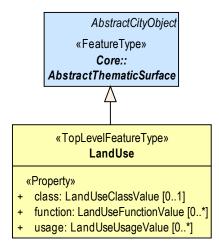
«CodeList»

GenericUnoccupiedSpaceUsageValue

«CodeList»

GenericThematicSurfaceUsageValue

LandUse module



LandUse module - Code lists

«CodeList»

LandUseClassValue

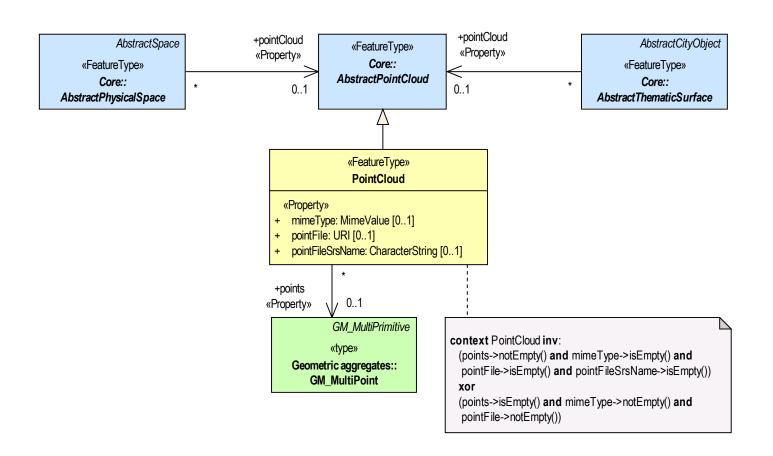
«CodeList»

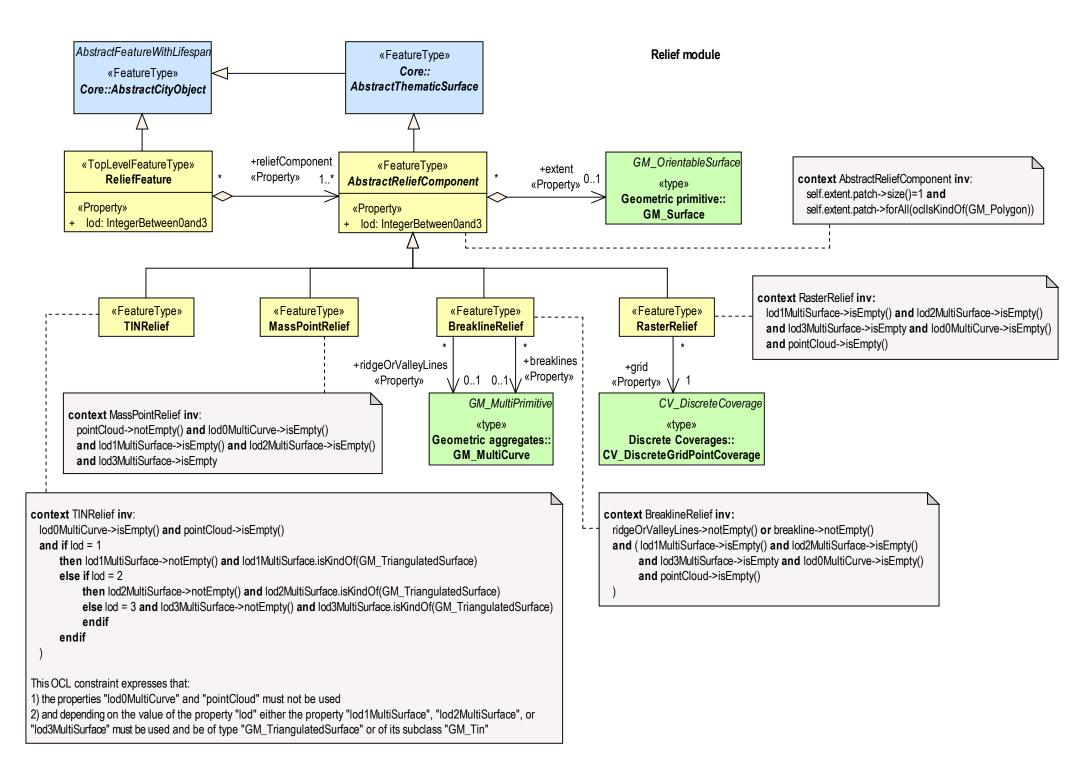
LandUseFunctionValue

«CodeList»

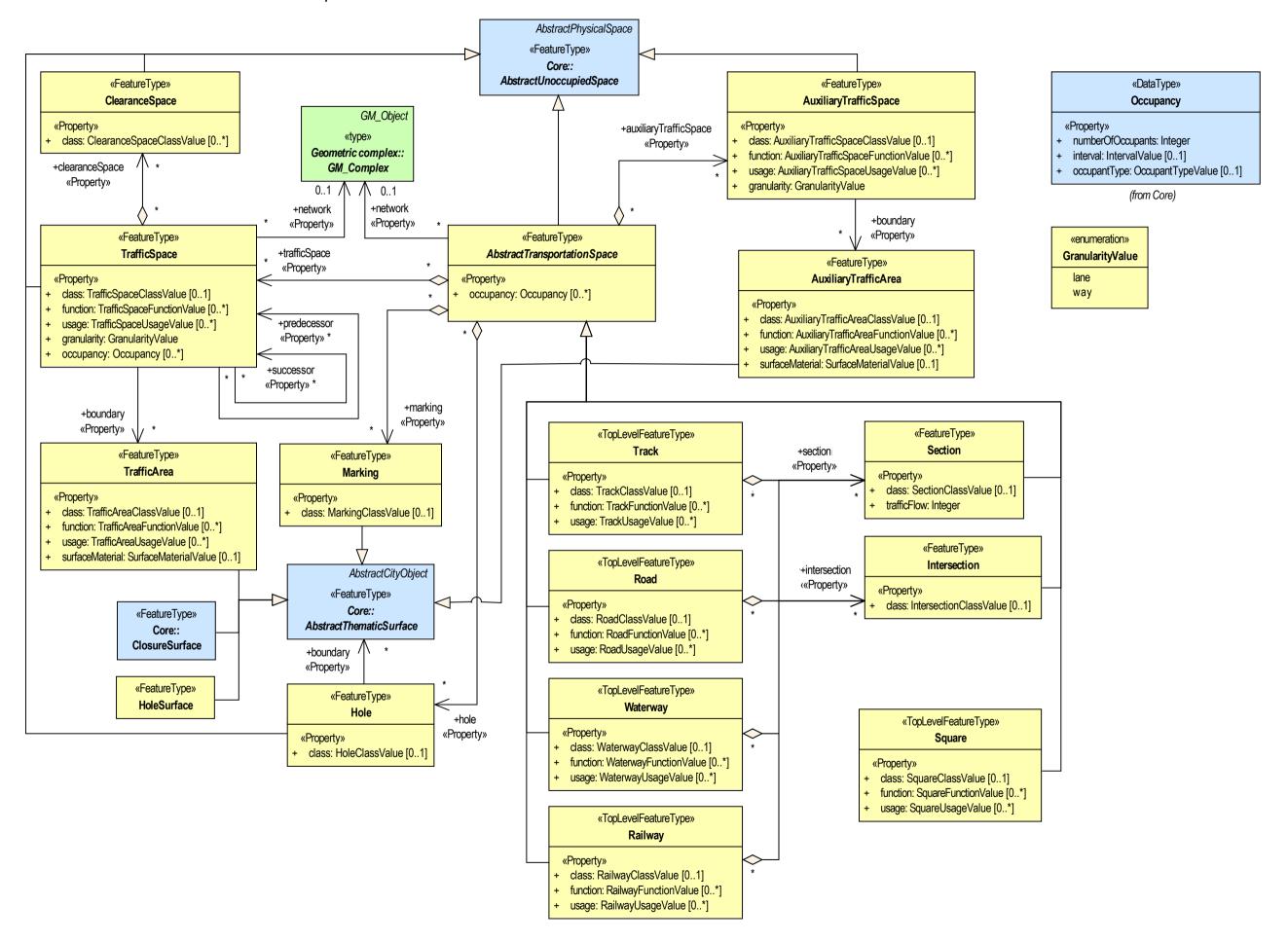
LandUseUsageValue

PointCloud module



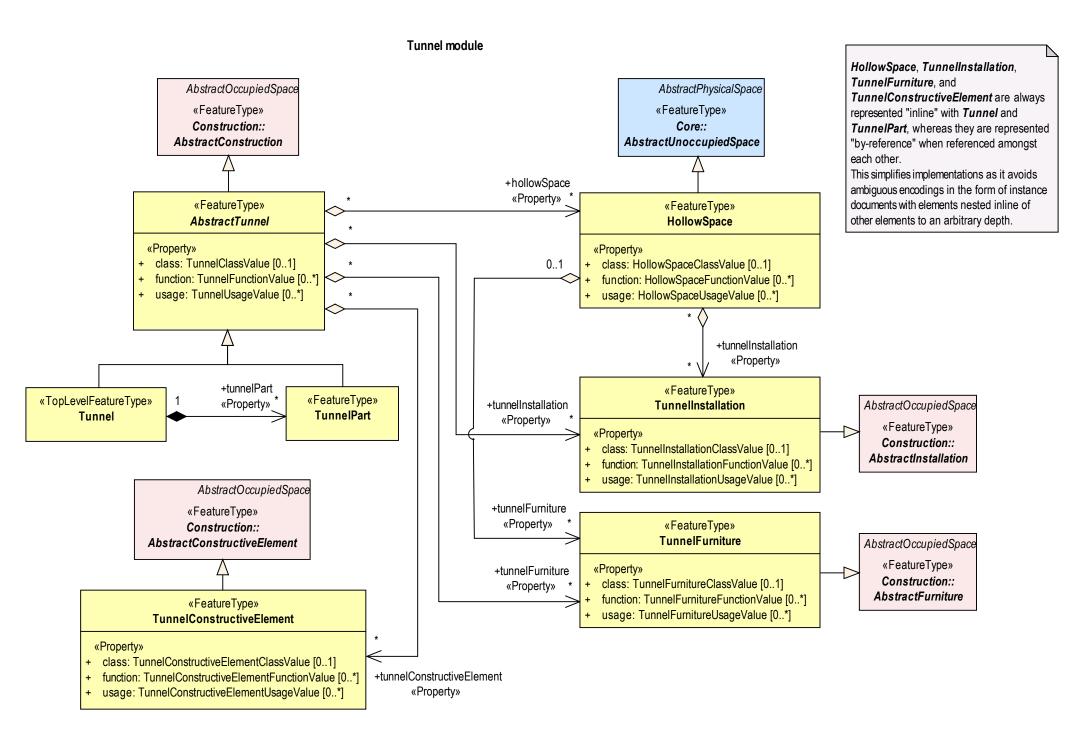


Transportation module



Transportation module - Code lists

«CodeList» «CodeList» «CodeList» «CodeList» **TransportationSpaceClassValue TrafficSpaceClassValue** ClearanceSpaceClassValue TrafficAreaClassValue «CodeList» «CodeList» «CodeList» TransportationSpaceFunctionValue **TrafficSpaceFunctionValue TrafficAreaFunctionValue** «CodeList» «CodeList» Drain, Manhole, MarkingClassValue HoleClassValue RoadwayDamage «CodeList» «CodeList» «CodeList» **TransportationSpaceUsageValue TrafficSpaceUsageValue** TrafficAreaUsageValue «Codel ist» «Codel ist» «Codel ist» «Codel ist» AuxiliaryTrafficSpaceClassValue AuxiliaryTrafficAreaClassValue SectionClassValue SurfaceMaterialValue «CodeList» «CodeList» AuxiliaryTrafficSpaceFunctionValue AuxiliaryTrafficAreaFunctionValue «CodeList» IntersectionClassValue «Codel ist» «Codel ist» **AuxiliaryTrafficSpaceUsageValue** AuxiliaryTrafficAreaUsageValue «CodeList» «CodeList» «CodeList» «CodeList» «CodeList» WaterwayClassValue RailwayClassValue **TrackClassValue** RoadClassValue SquareClassValue «CodeList» «CodeList» «CodeList» «CodeList» «CodeList» WaterwayFunctionValue RailwayFunctionValue SquareFunctionValue **TrackFunctionValue** RoadFunctionValue «CodeList» «CodeList» «CodeList» «CodeList» «CodeList» **TrackUsageValue** RoadUsageValue WaterwayUsageValue RailwayUsageValue SquareUsageValue



Tunnel module - Code lists

«CodeList»
TunnelClassValue

«CodeList»
TunnelInstallationClassValue

«CodeList»
TunnelFurnitureClassValue

«CodeList»
TunnelFunctionValue

«CodeList»

TunnelInstallationFunctionValue

«CodeList»
TunnelFurnitureFunctionValue

«CodeList»
TunnelUsageValue

«CodeList»

TunnelInstallationUsageValue

«CodeList»
TunnelFurnitureUsageValue

«CodeList»

HollowSpaceClassValue

«CodeList»

TunnelConstructiveElementClassValue

«CodeList»

HollowSpaceFunctionValue

«CodeList»

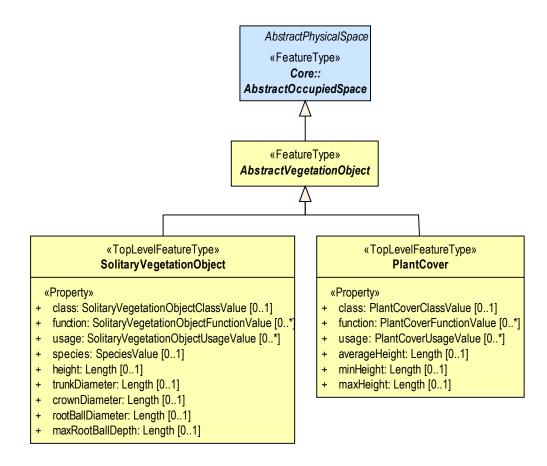
TunnelConstructiveElementFunctionValue

«CodeList»
HollowSpaceUsageValue

«CodeList»

TunnelConstructiveElementUsageValue

Vegetation module



Vegetation module - Code lists

«CodeList»

SolitaryVegetationObjectClassValue

«CodeList»

PlantCoverClassValue

«CodeList»

Solitary Vegetation Object Function Value

«CodeList»

PlantCoverFunctionValue

«CodeList»

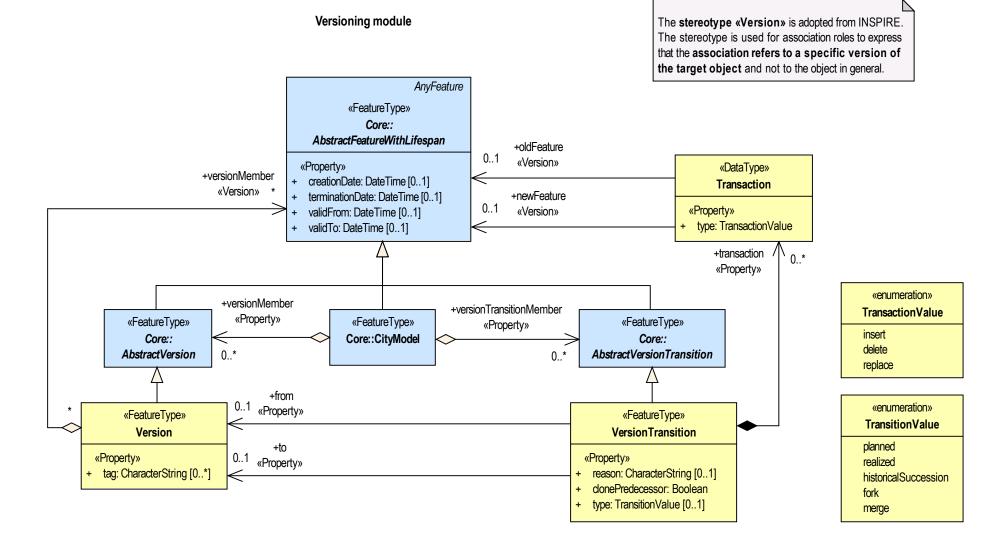
Solitary Vegetation Object Usage Value

«CodeList»

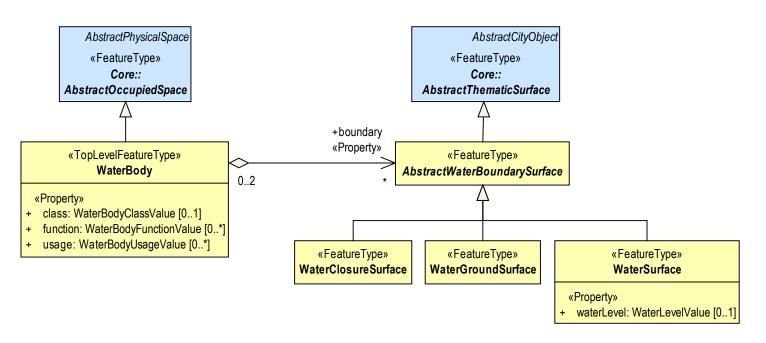
PlantCoverUsageValue

«CodeList»

SpeciesValue



WaterBody module



WaterBody module - Code lists

«CodeList»

WaterBodyClassValue

«CodeList»
WaterLevelValue

«CodeList»

WaterBodyFunctionValue

«CodeList»

WaterBodyUsageValue