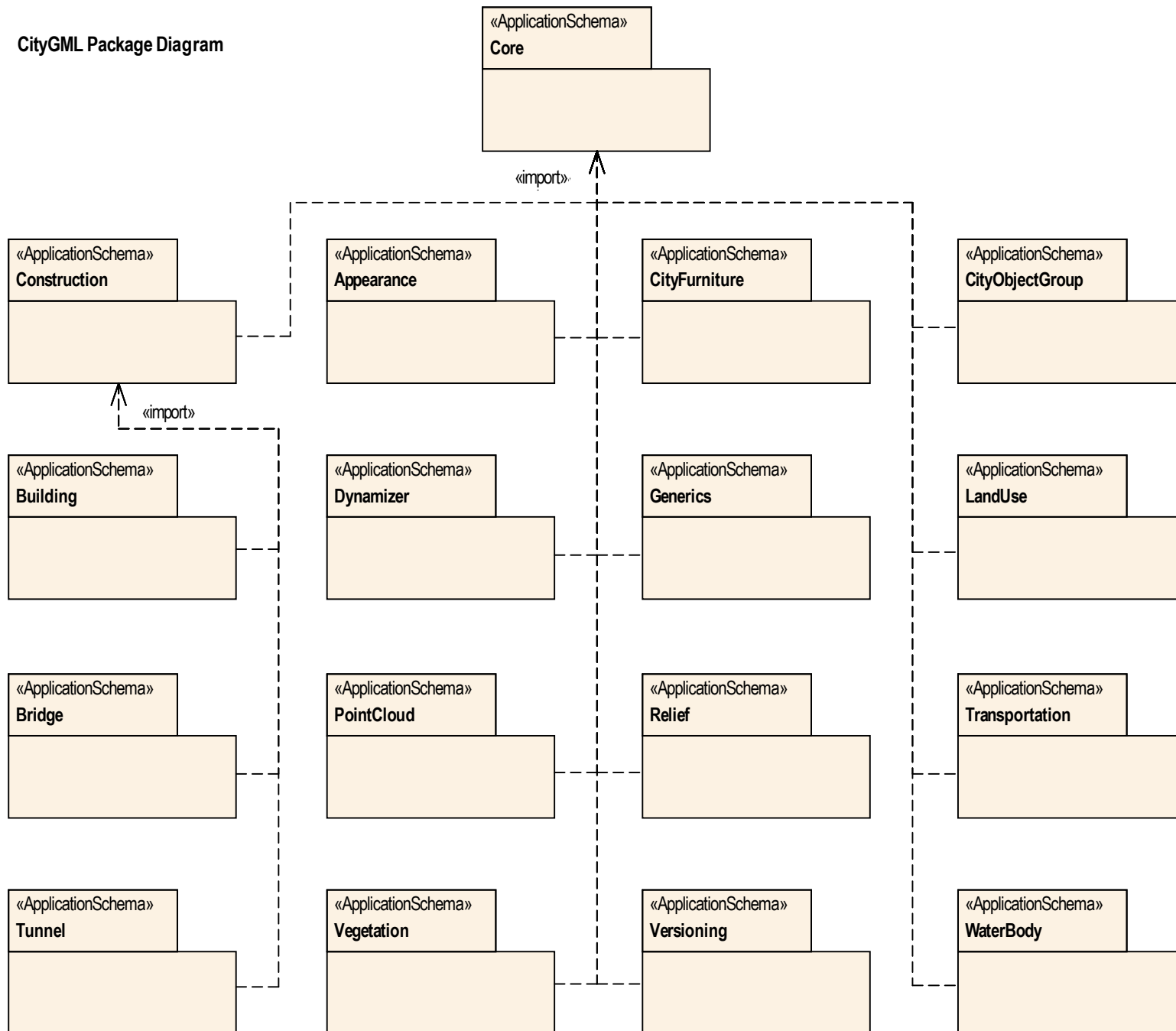
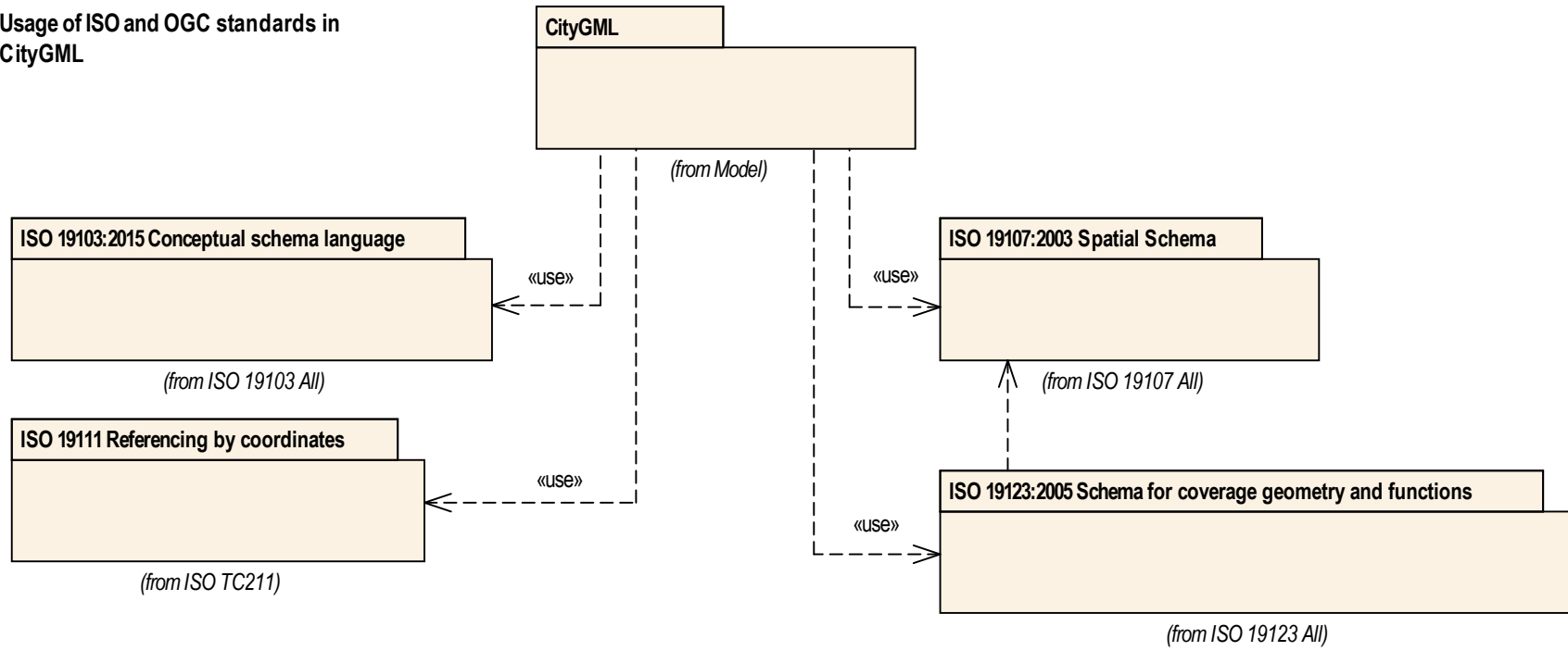


CityGML Package Diagram

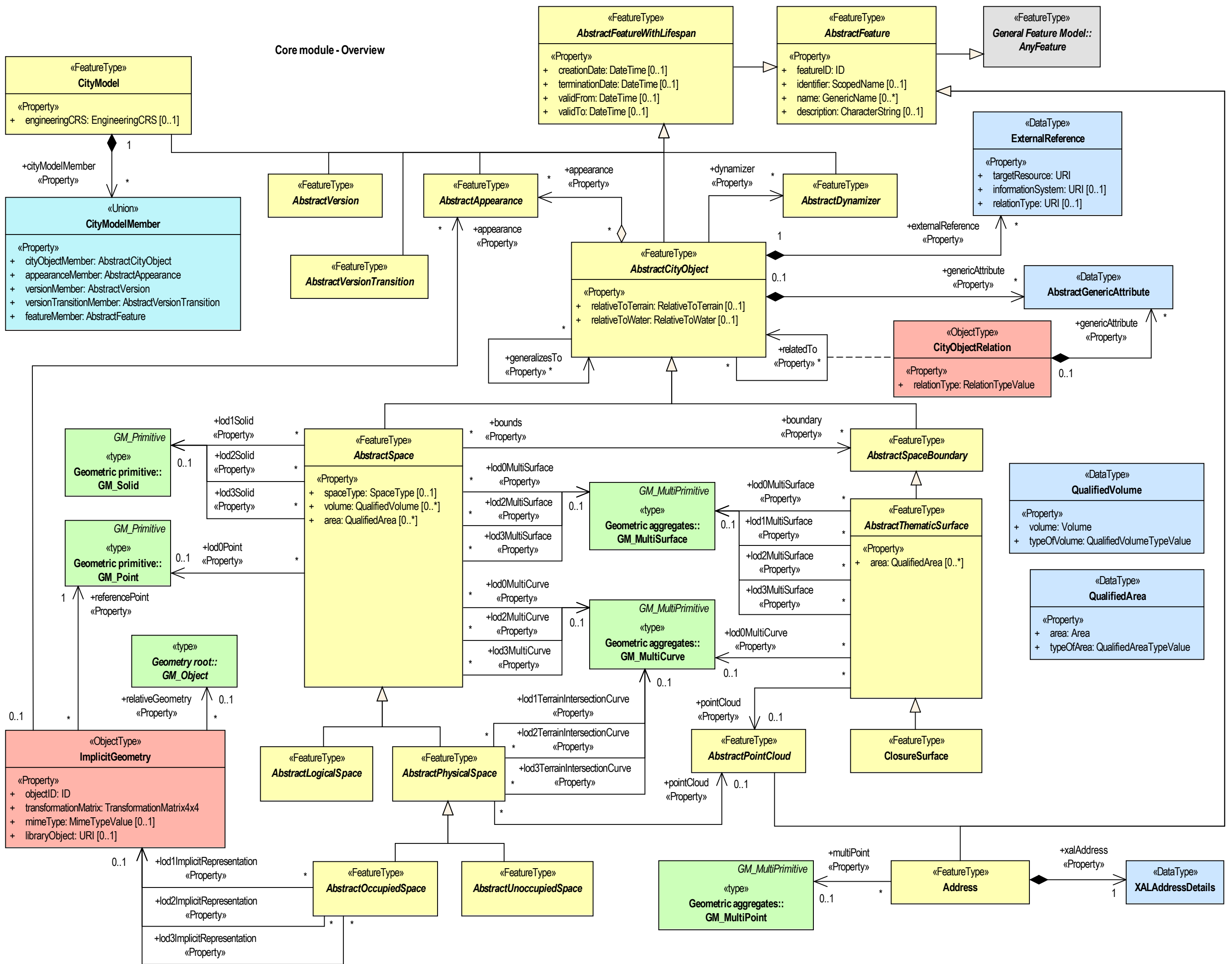


Usage of ISO and OGC standards in CityGML

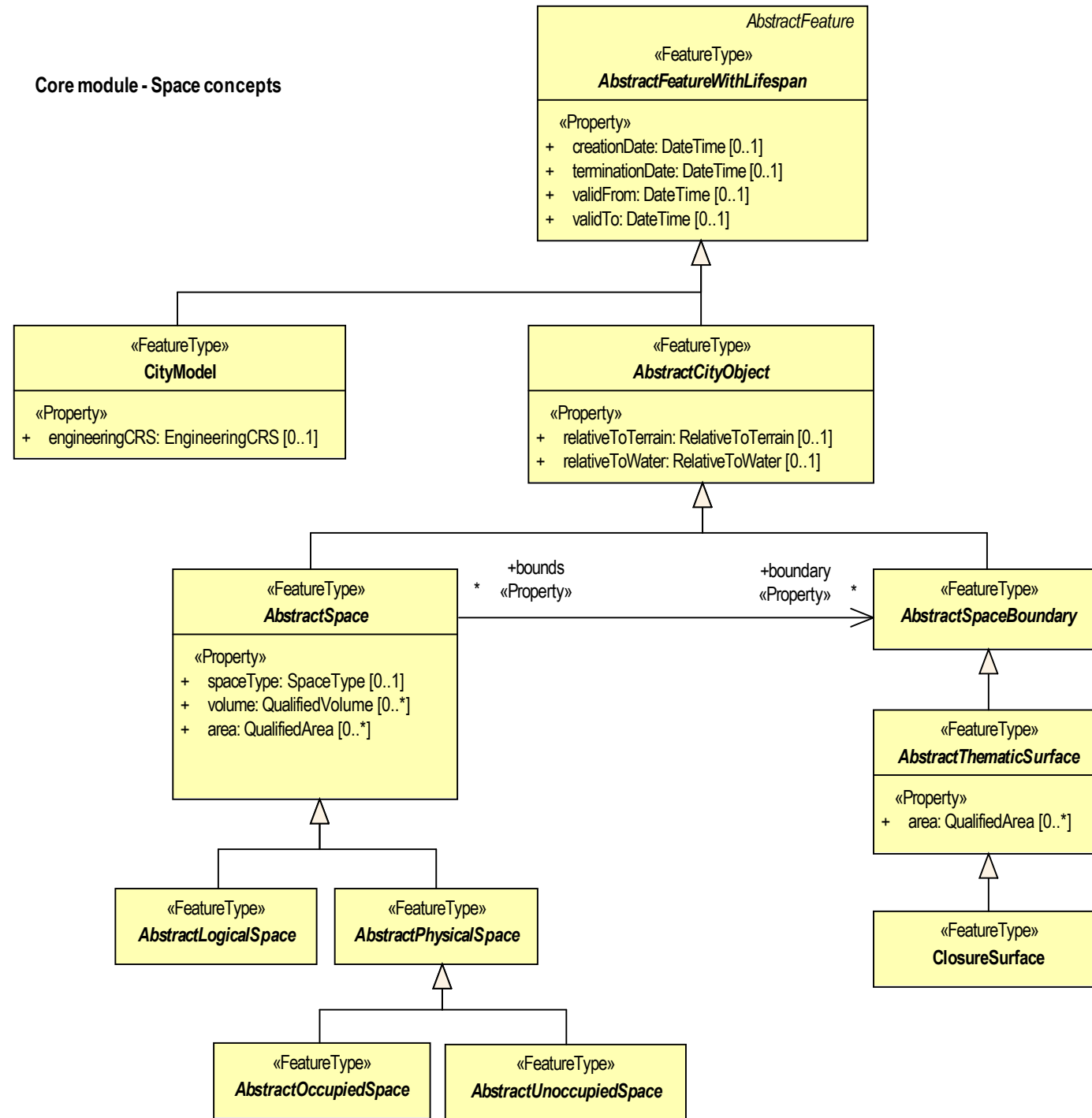


Color Scheme

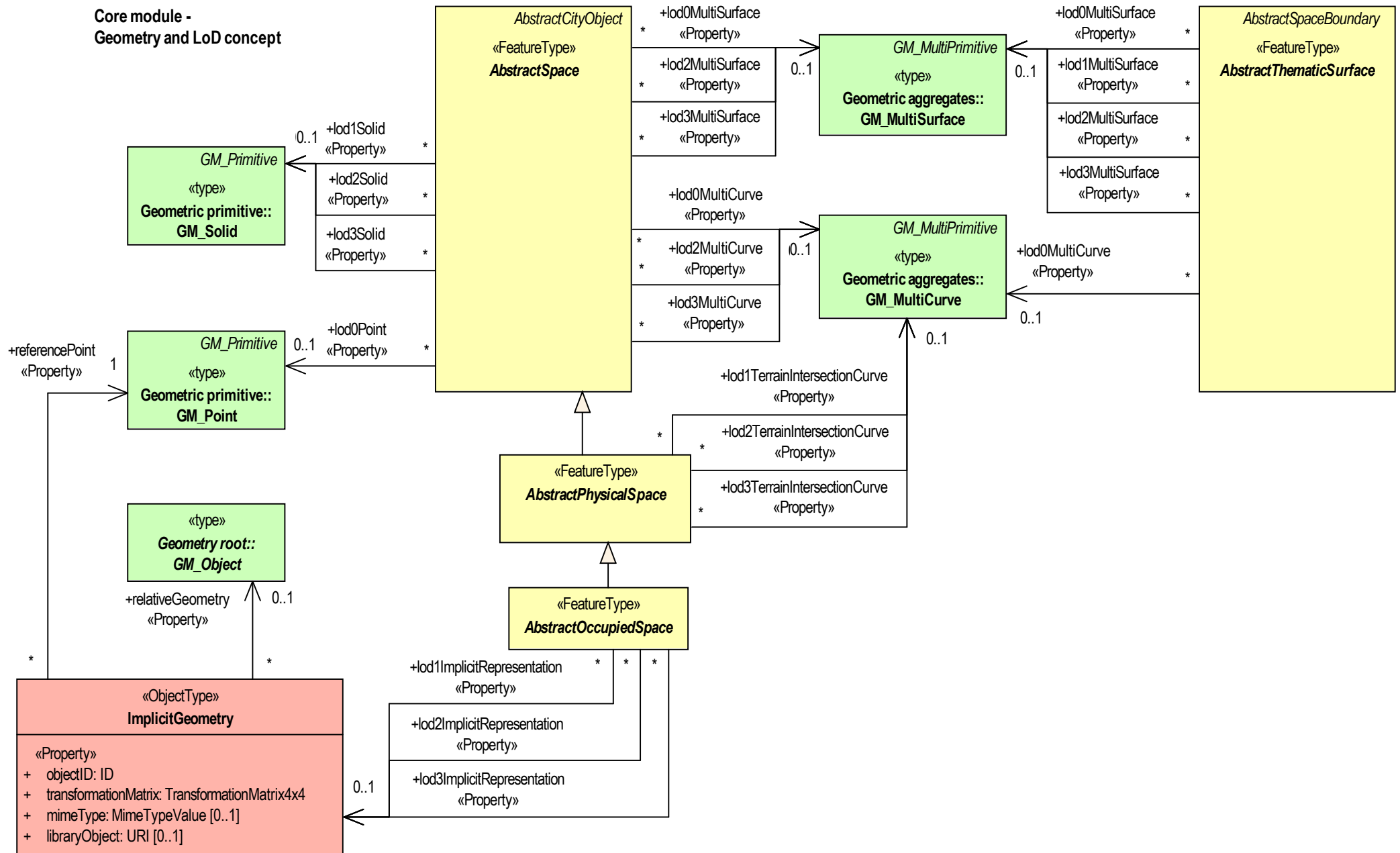
«FeatureType»	Yellow (255 255 179)	Geometry class	Green (204 255 185)
«TopLevelFeatureType»	Orange (255 220 165)	CRS class	Forest green (188 225 188)
«ObjectType»	Red (255 180 170)	Construction / Generics module class	Old rose (226 203 203)
«DataType»	Blue (204 230 255)	Core module class	Pale rose (251 233 233)
«Union»	Turquoise (190 245 250)	GeneralFeatureModel class	Grey (225 225 225)
«CodeList»	Violet (240 195 255)	Comment + OCL constraint	White (255 255 255)
«enumeration»	Lilac (200 195 255)		
«BasicType»	Brown (217 203 178)		



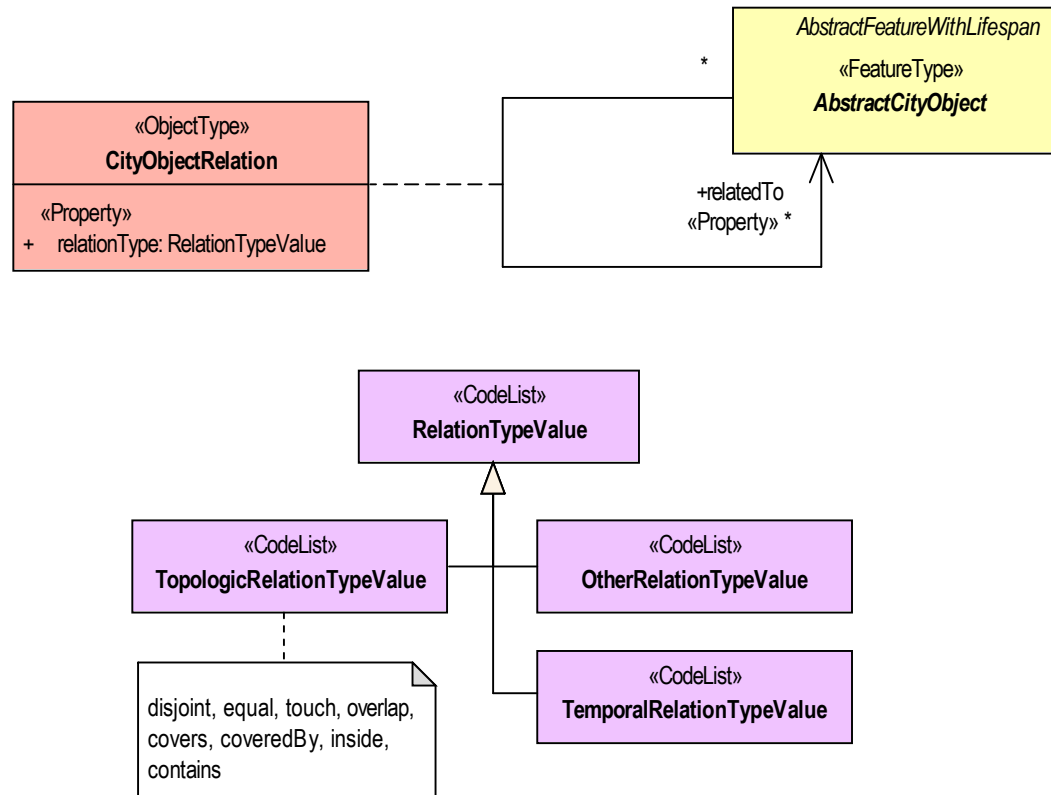
Core module - Space concepts



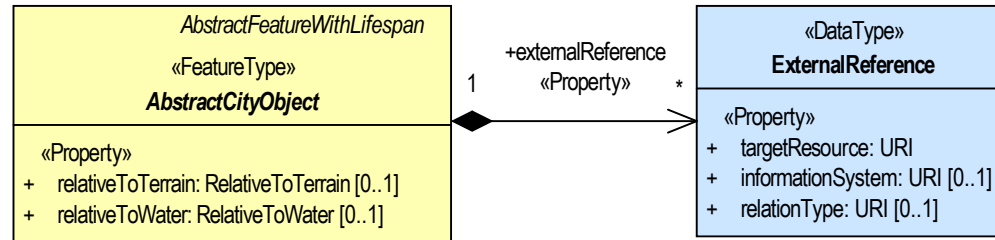
Core module - Geometry and LoD concept



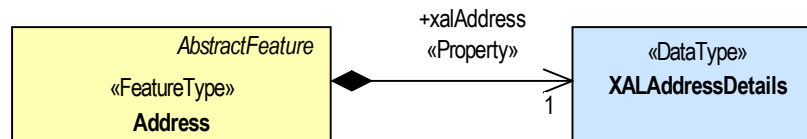
Core module - City object relations



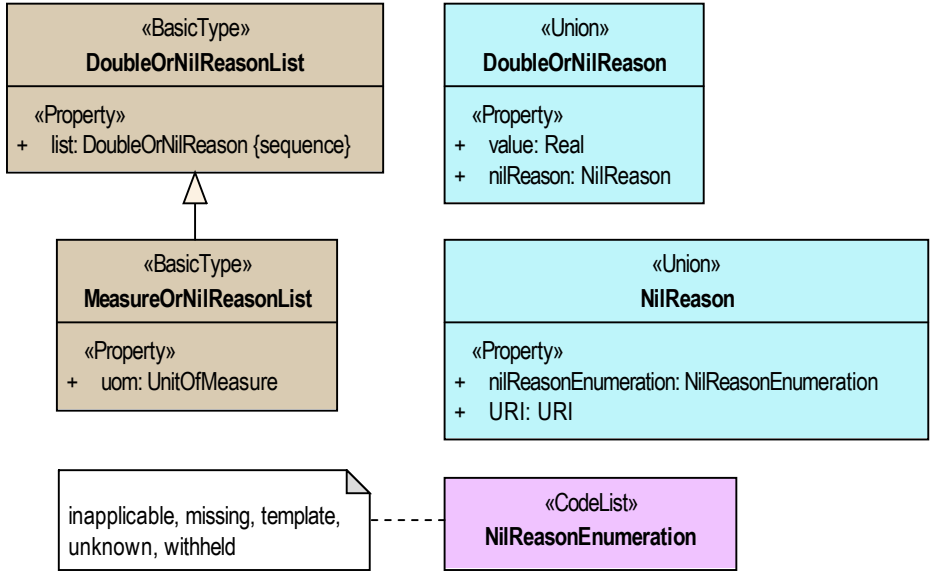
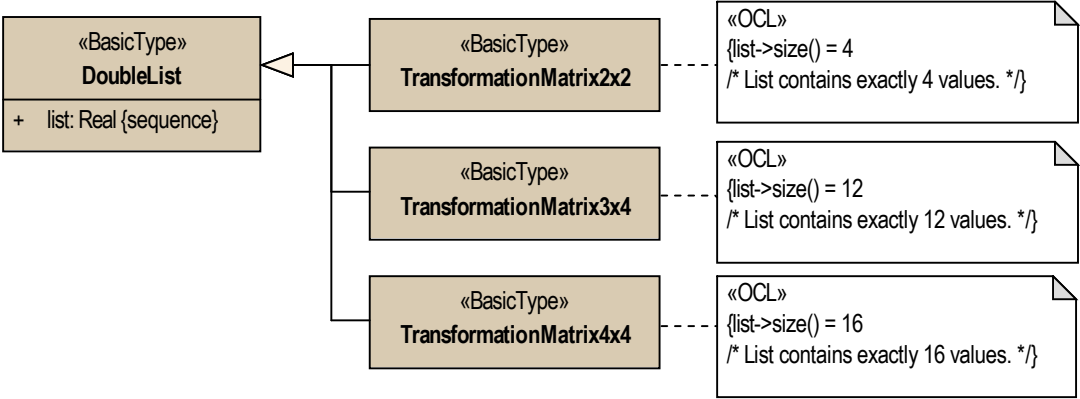
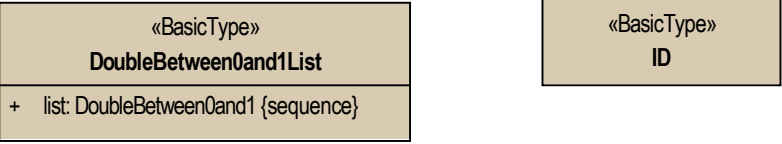
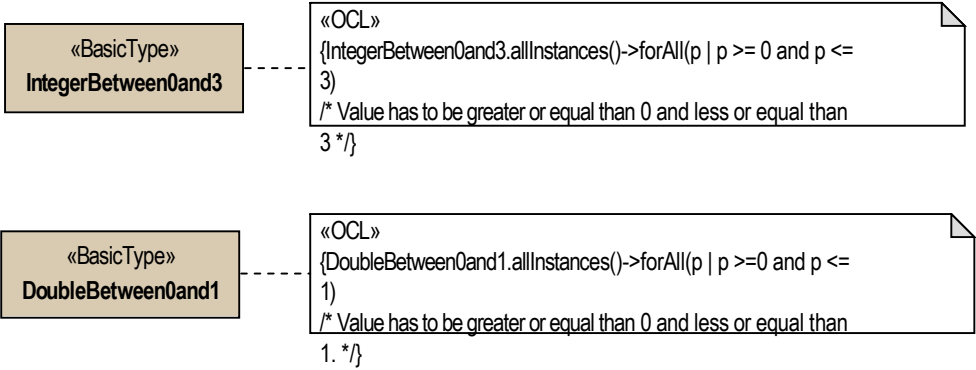
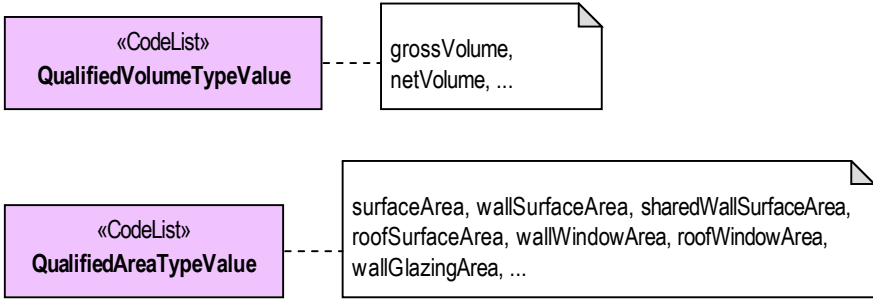
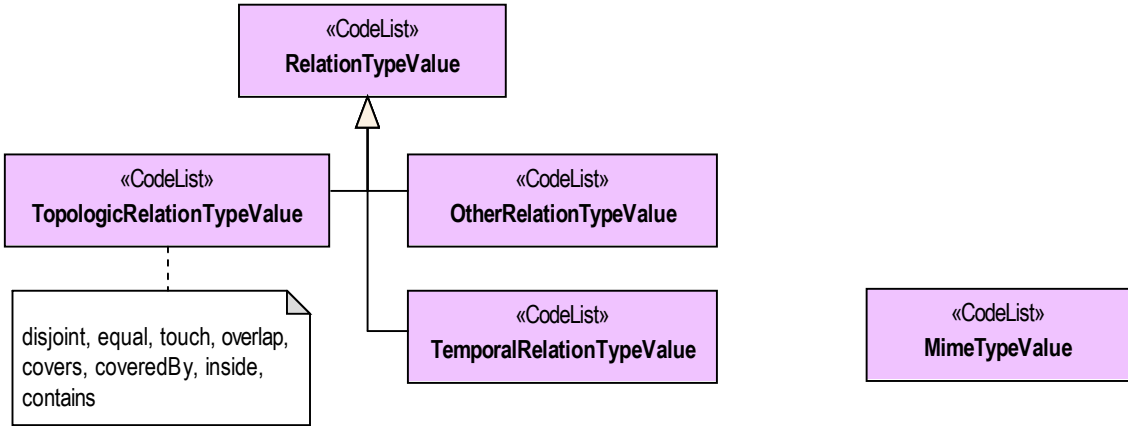
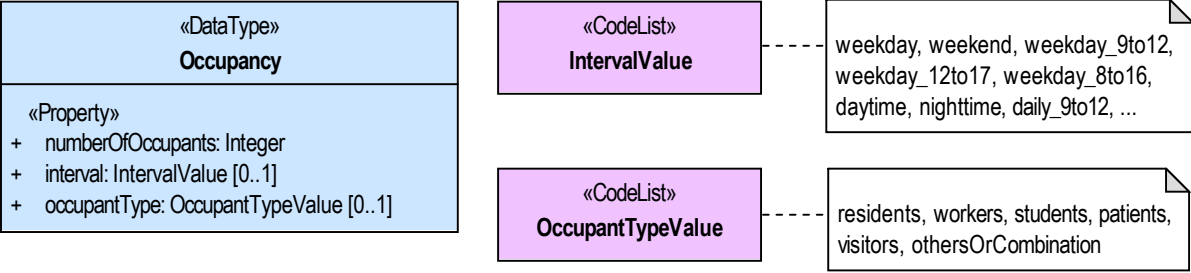
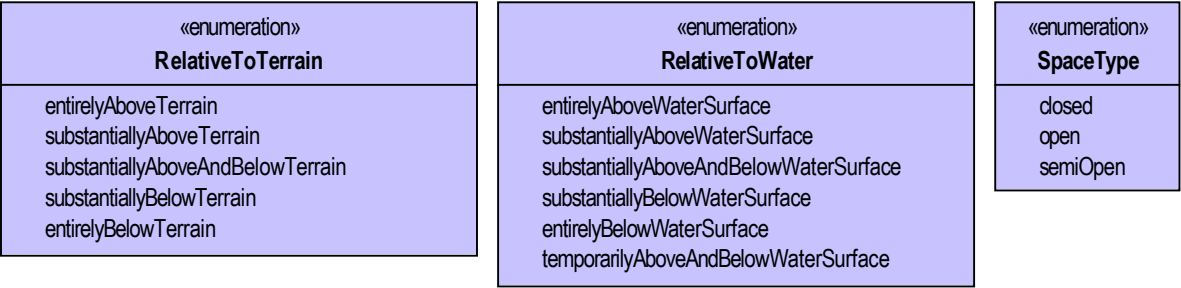
Core module - Miscellaneous

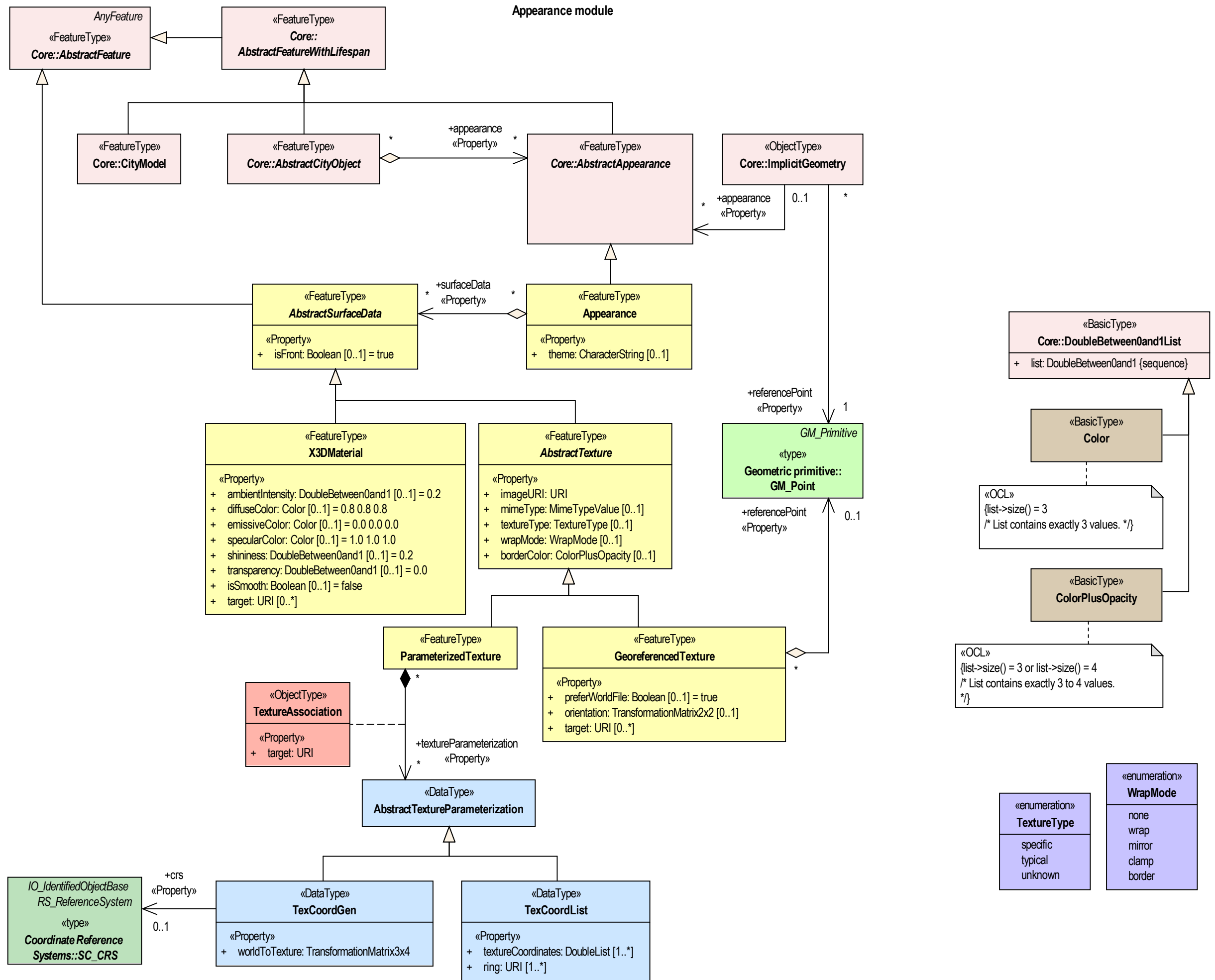


ExternalReference is now extended by an optional **relation Type** which can link to some external definition of the type of relation (e.g. the *sameAs* relation from OWL). Hence, **ExternalReferences** can now be used to express relations similar to RDF.

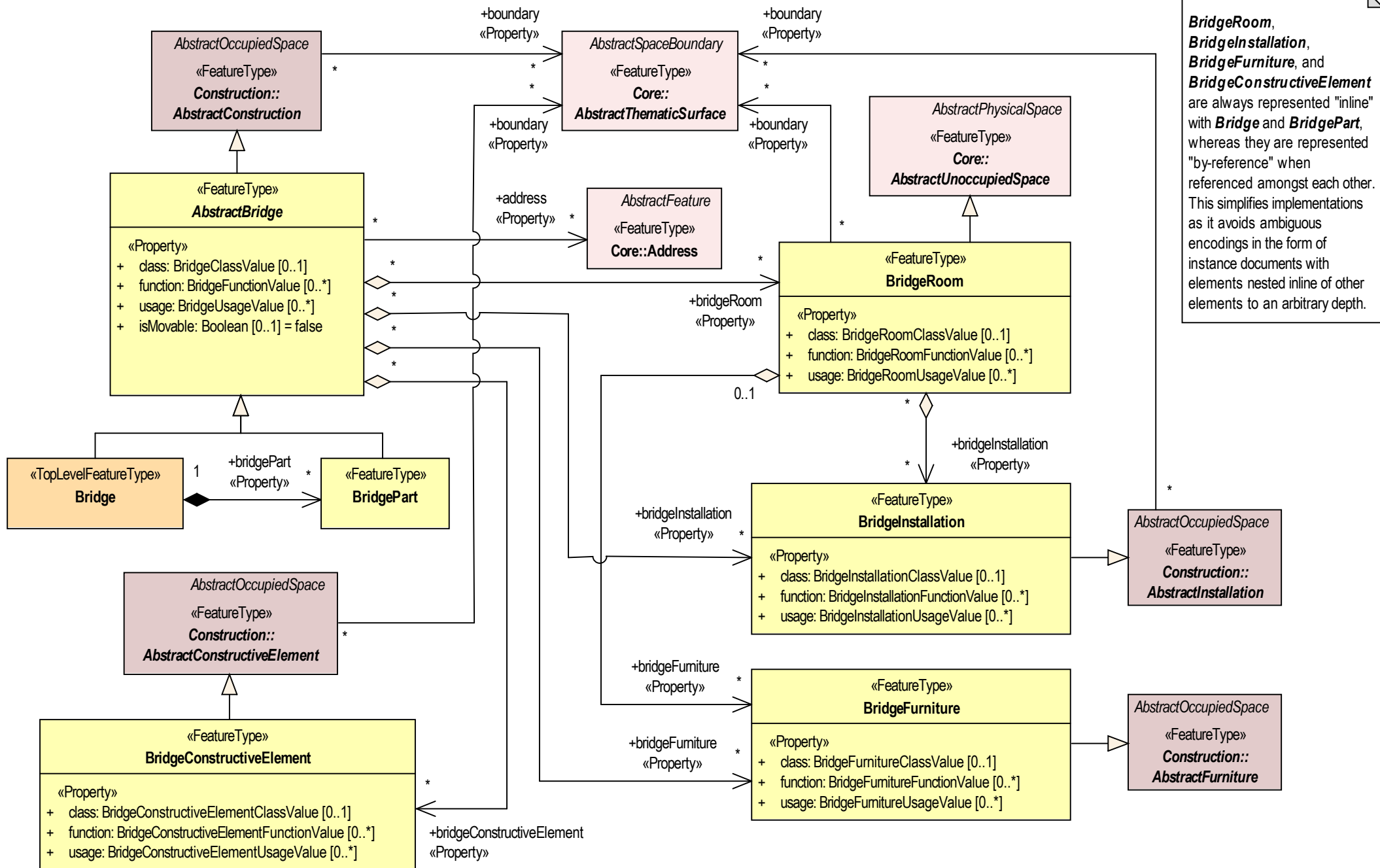


Core module - Basic Types, Enumerations, and Code lists

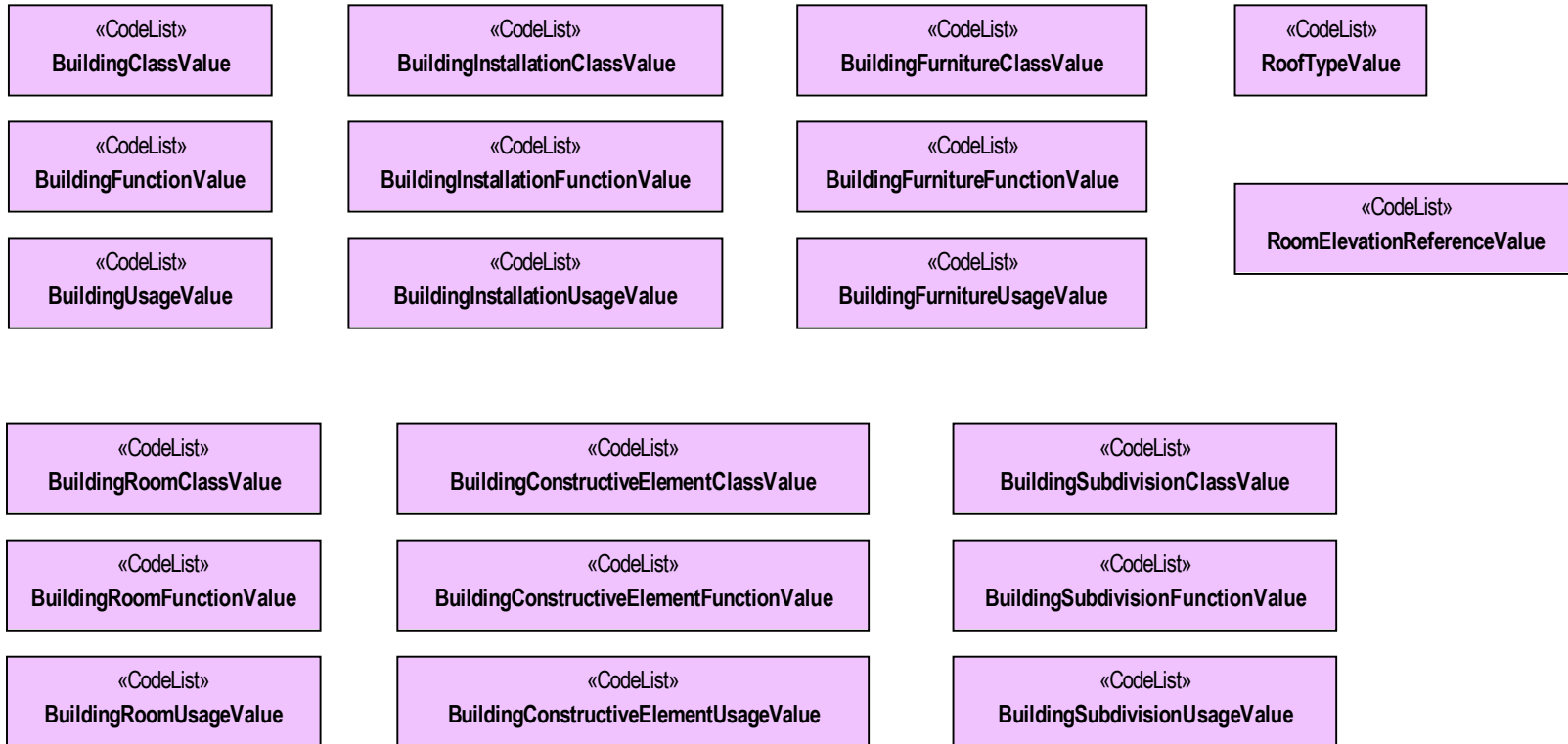




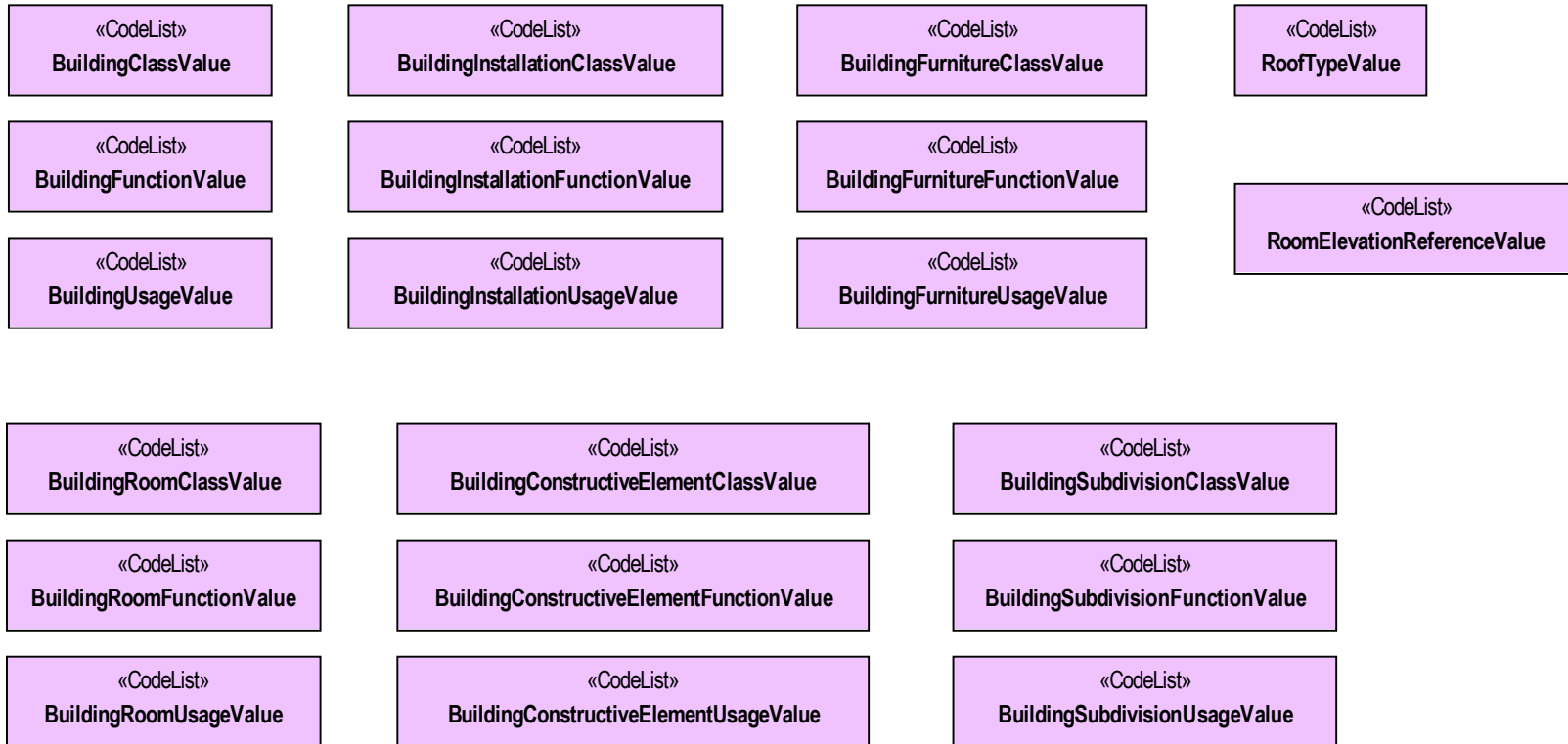
Bridge module



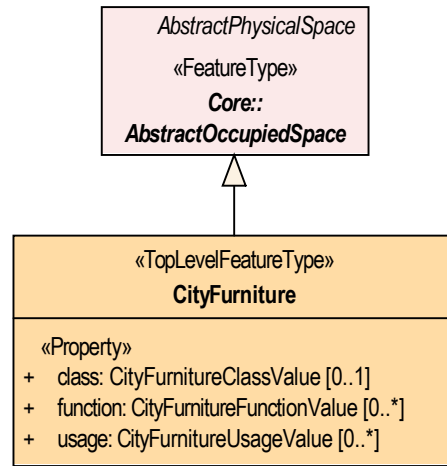
Building module - Code lists



Building module - Code lists



CityFurniture module



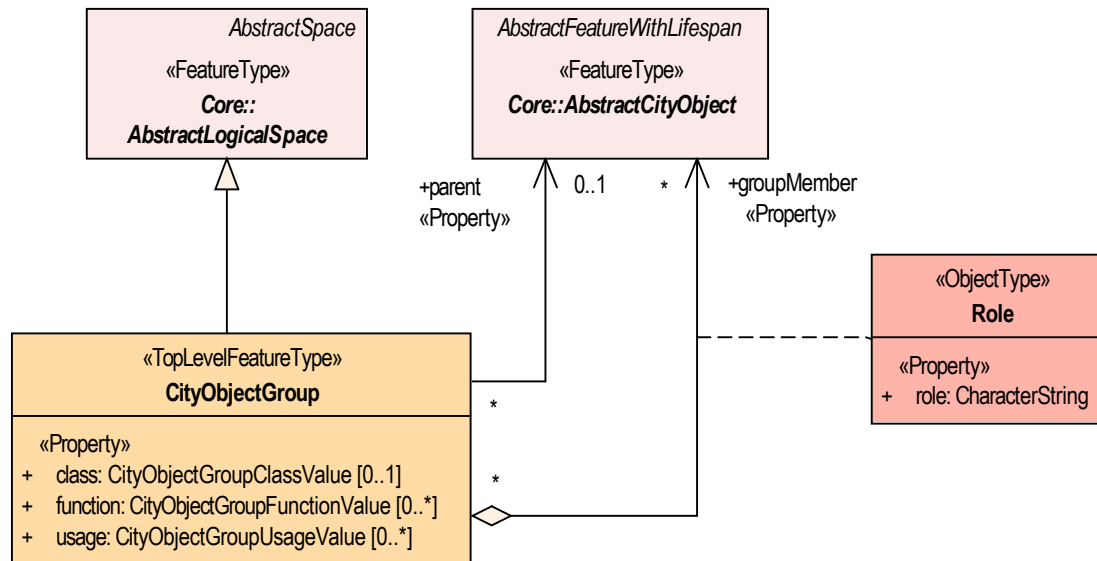
CityFurniture module - Code lists

«CodeList»
CityFurnitureClassValue

«CodeList»
CityFurnitureFunctionValue

«CodeList»
CityFurnitureUsageValue

CityObjectGroup module



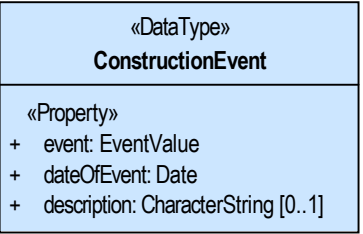
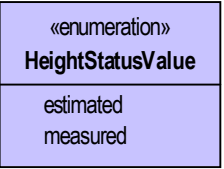
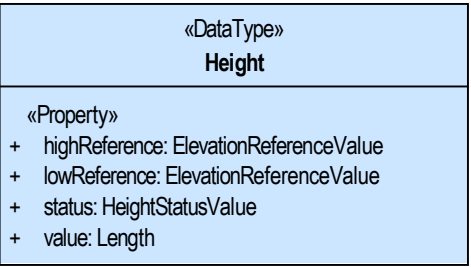
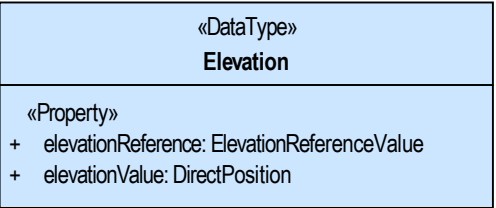
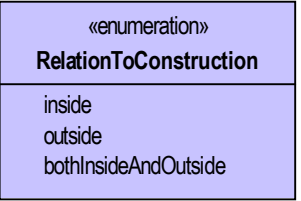
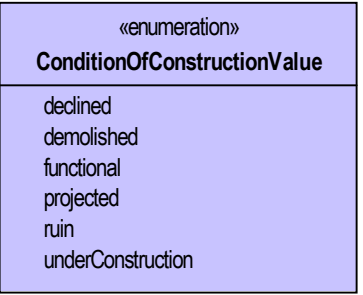
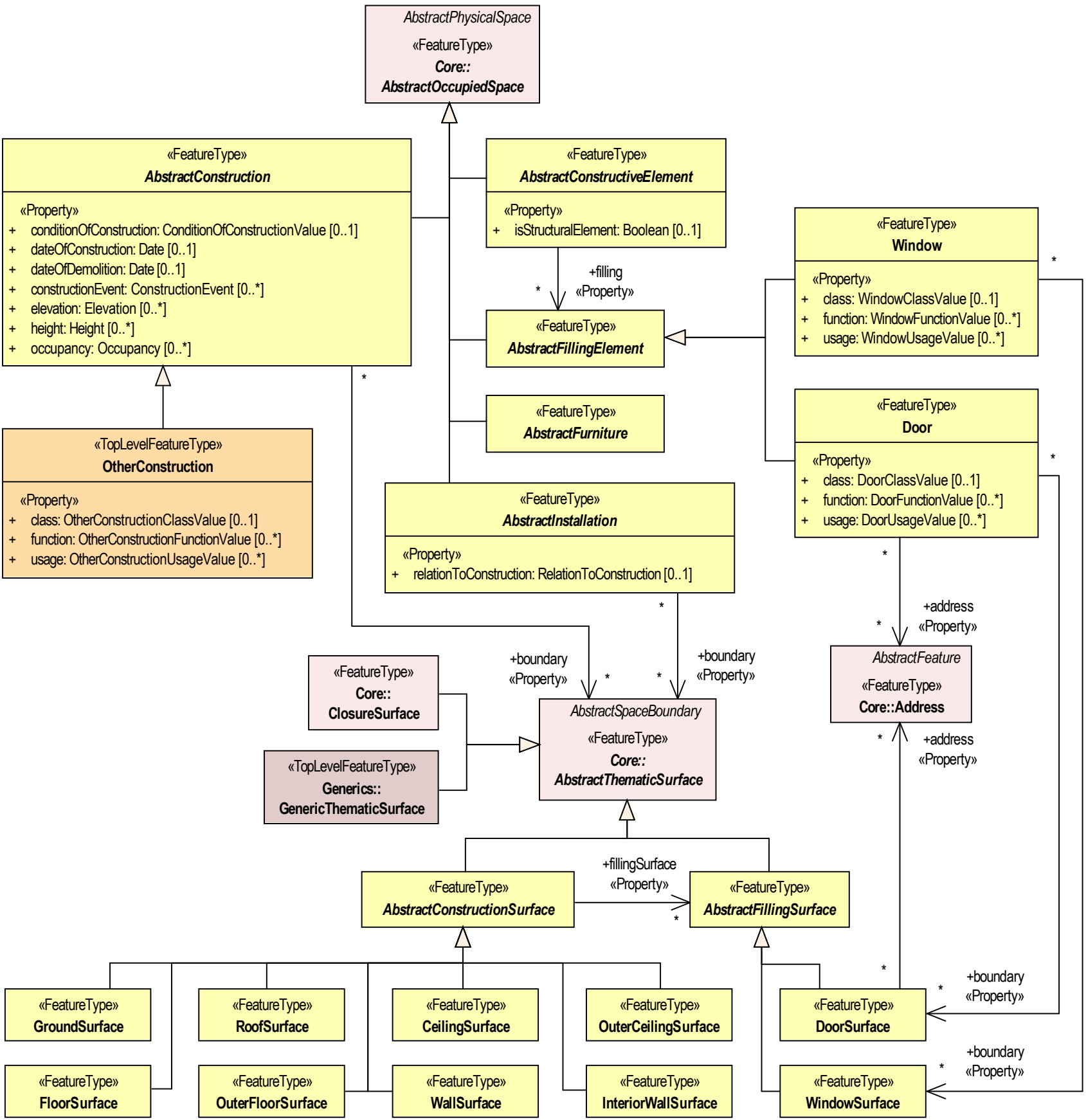
CityObjectGroup module - Code lists

«CodeList»
CityObjectGroupClassValue

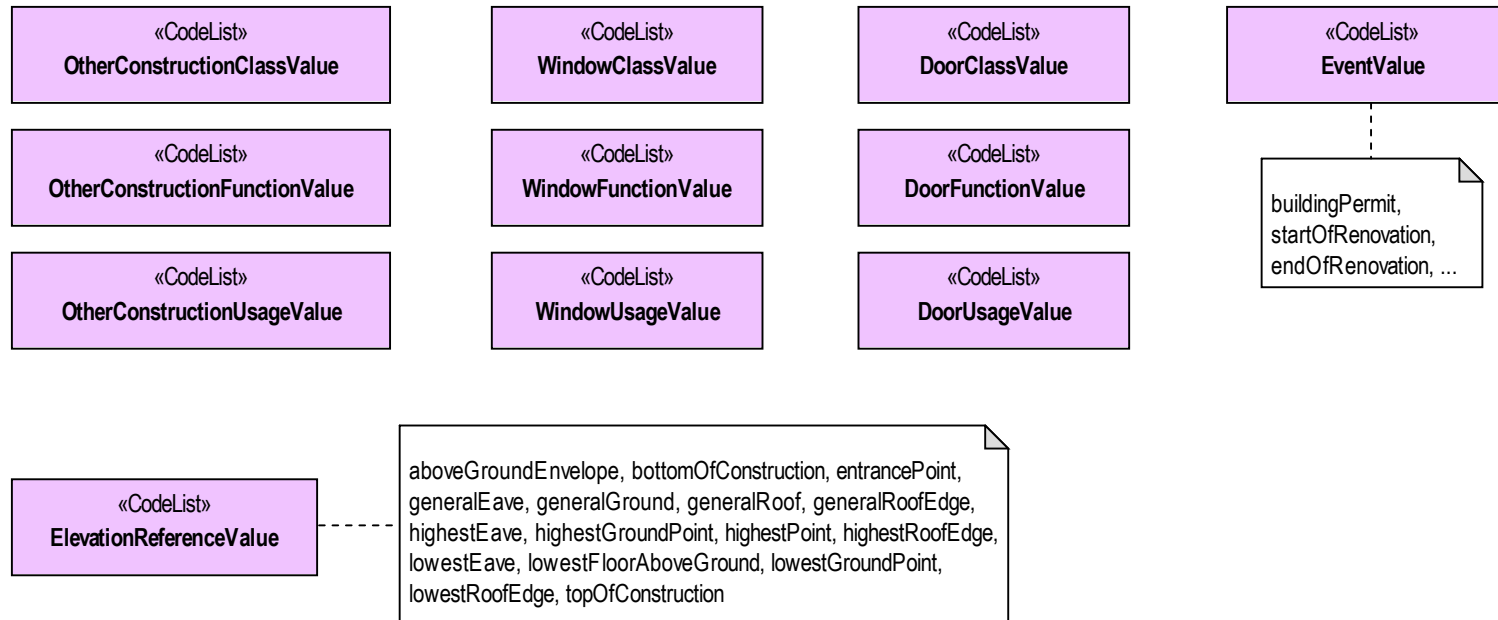
«CodeList»
CityObjectGroupFunctionValue

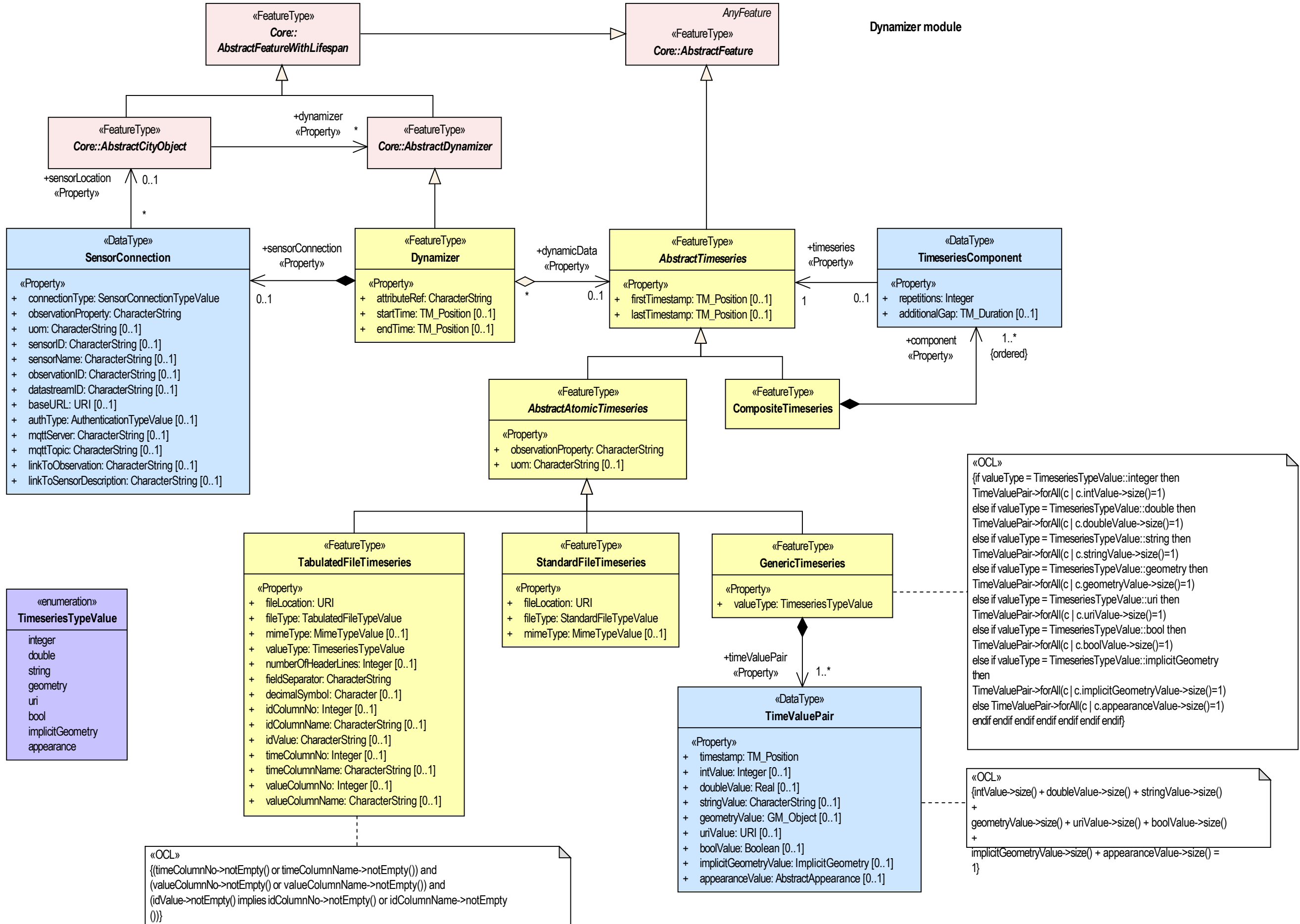
«CodeList»
CityObjectGroupUsageValue

Construction module

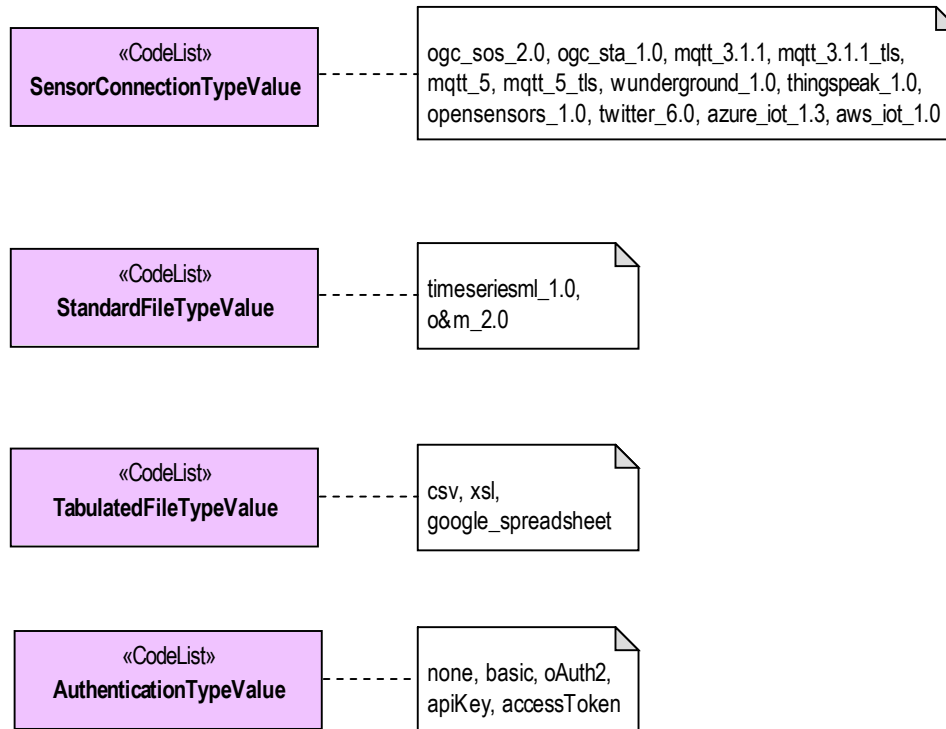


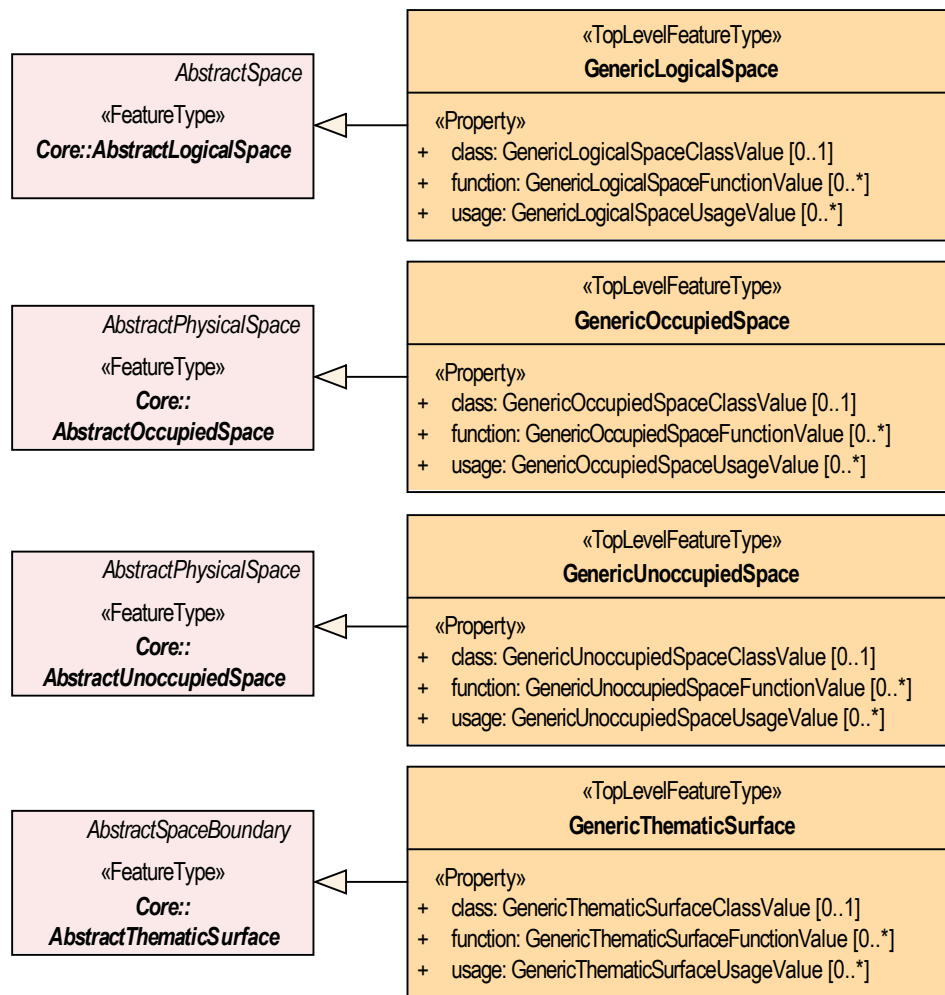
Construction module - Code lists



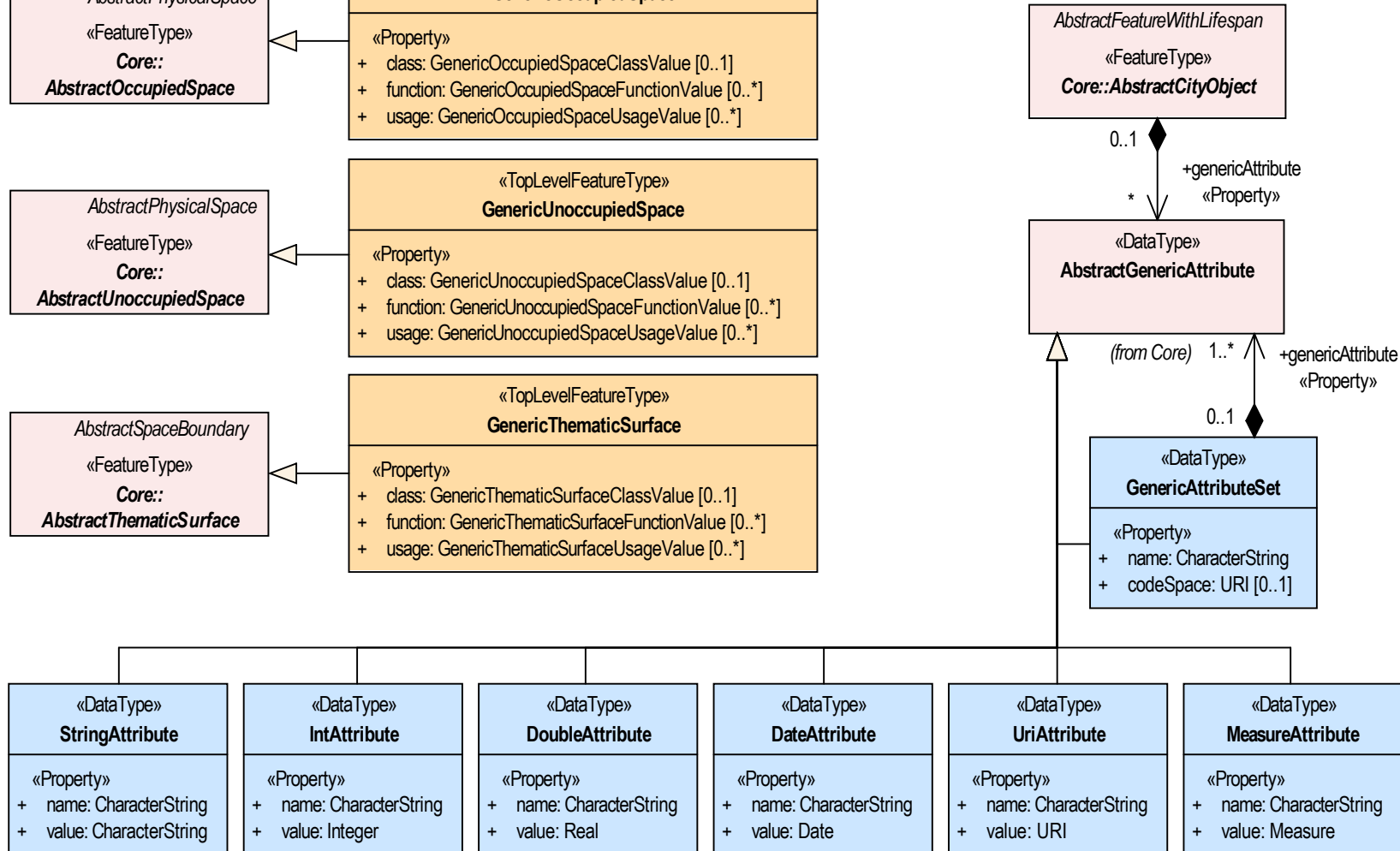


Dynamizer module - Code lists





Generics module



Generics module - Code lists

«CodeList»
GenericLogicalSpaceClassValue

«CodeList»
GenericOccupiedSpaceClassValue

«CodeList»
GenericUnoccupiedSpaceClassValue

«CodeList»
GenericThematicSurfaceClassValue

«CodeList»
GenericLogicalSpaceFunctionValue

«CodeList»
GenericOccupiedSpaceFunctionValue

«CodeList»
GenericUnoccupiedSpaceFunctionValue

«CodeList»
GenericThematicSurfaceFunctionValue

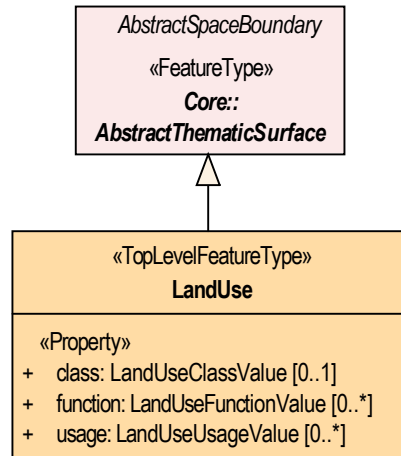
«CodeList»
GenericLogicalSpaceUsageValue

«CodeList»
GenericOccupiedSpaceUsageValue

«CodeList»
GenericUnoccupiedSpaceUsageValue

«CodeList»
GenericThematicSurfaceUsageValue

LandUse module



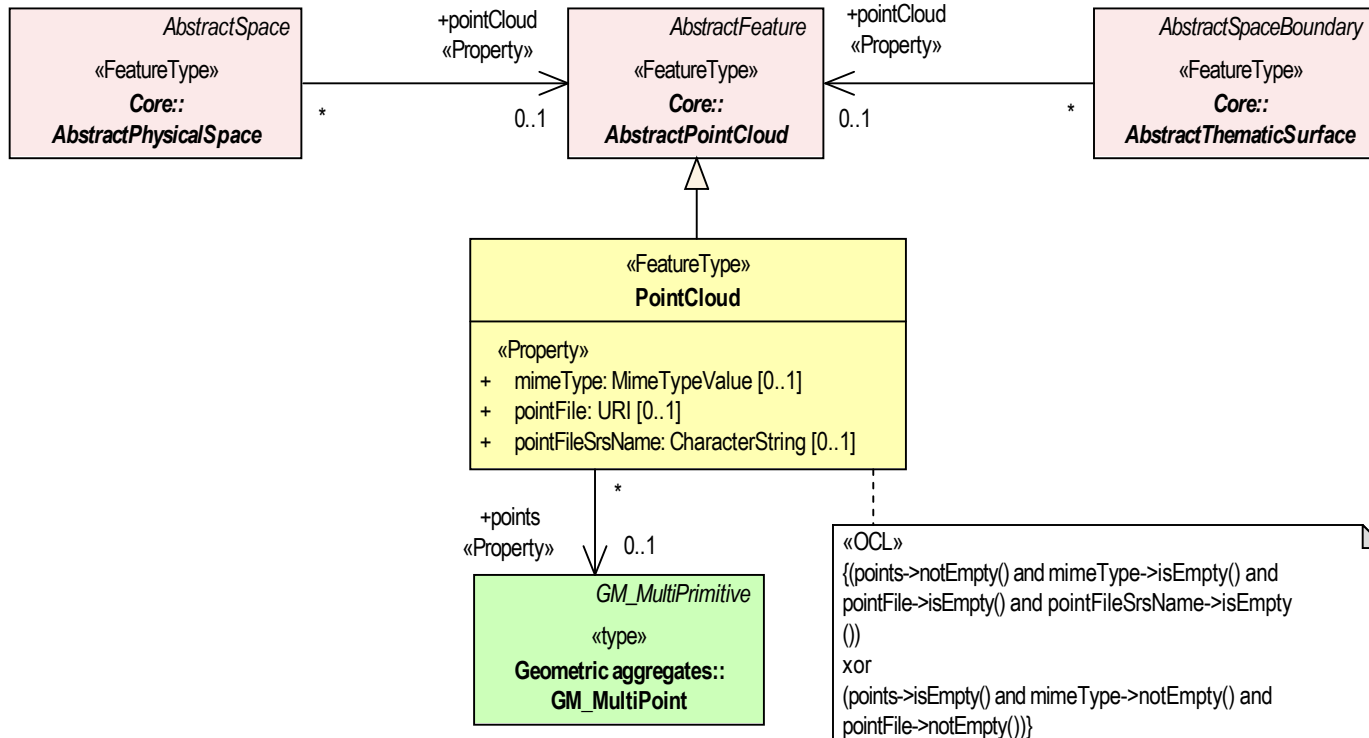
LandUse module - Code lists

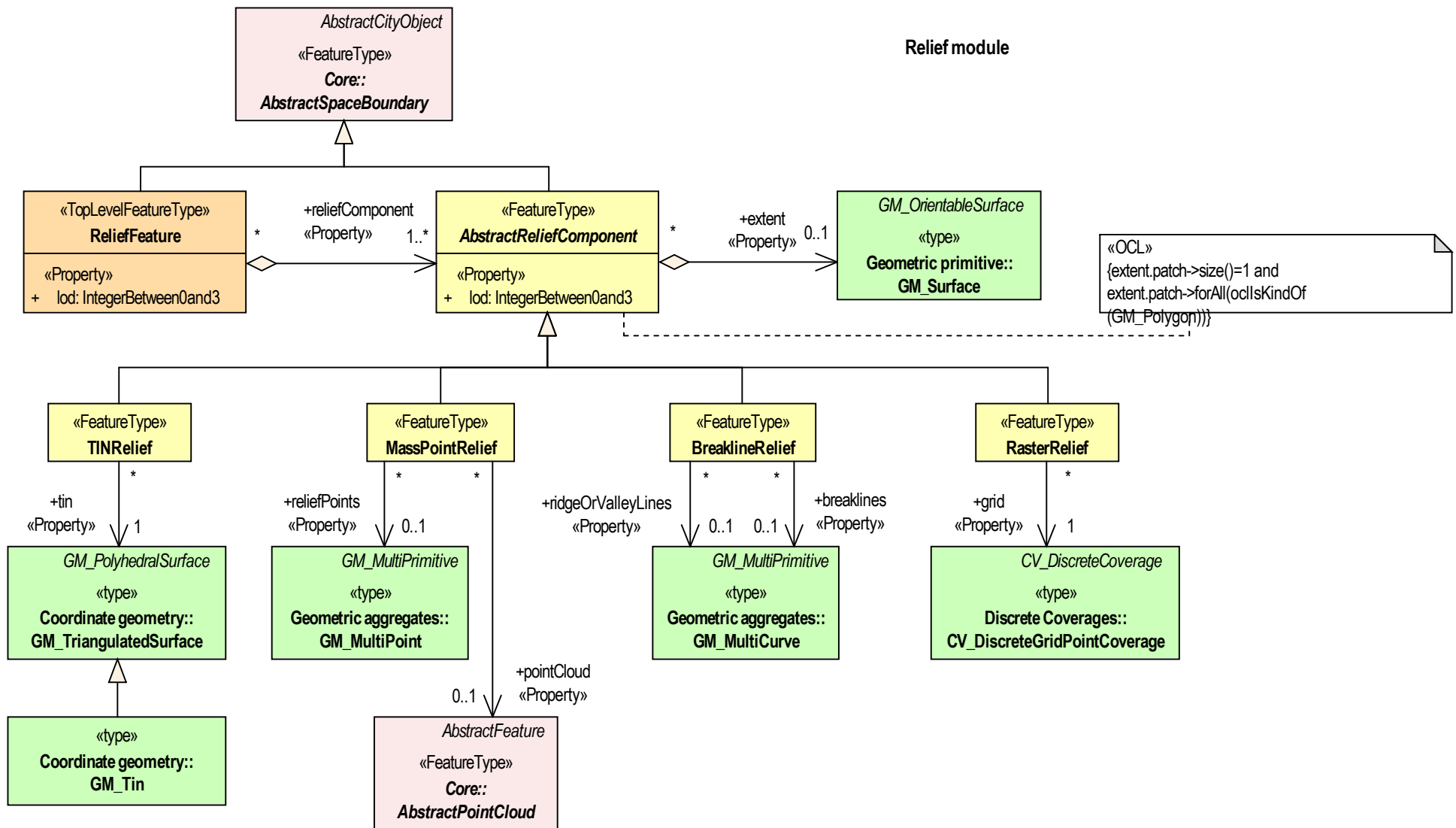
«CodeList»
LandUseClassValue

«CodeList»
LandUseFunctionValue

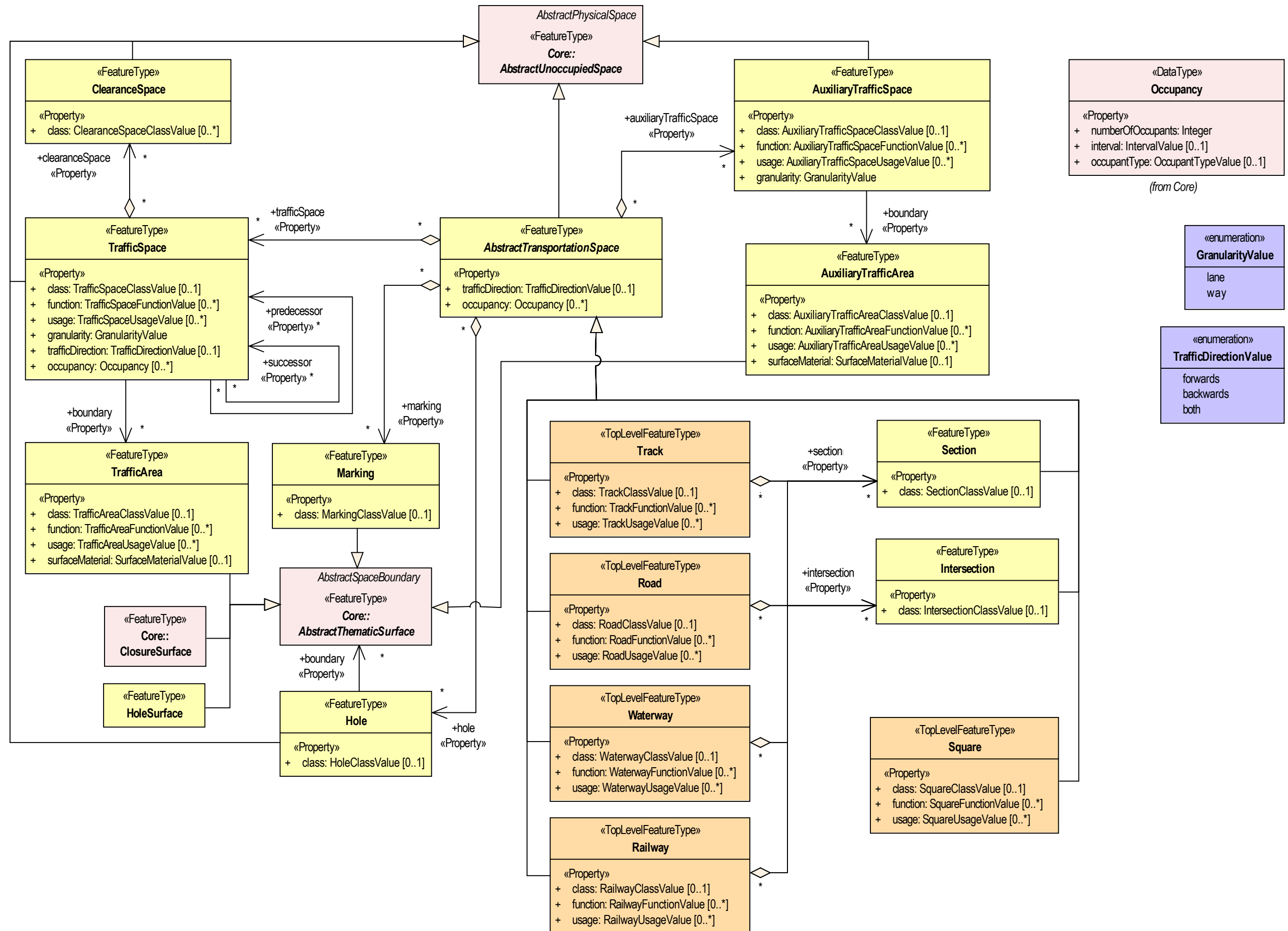
«CodeList»
LandUseUsageValue

PointCloud module

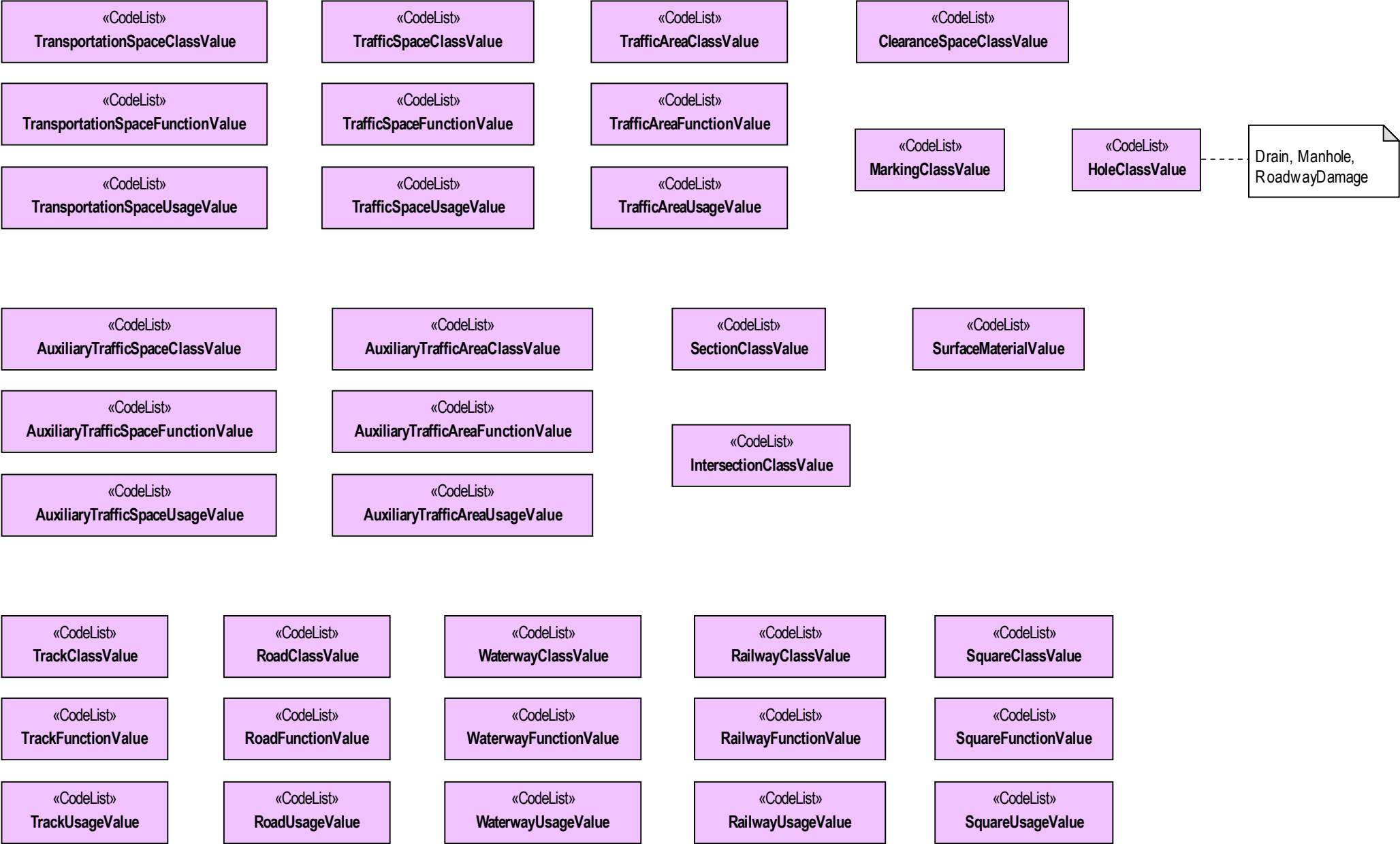




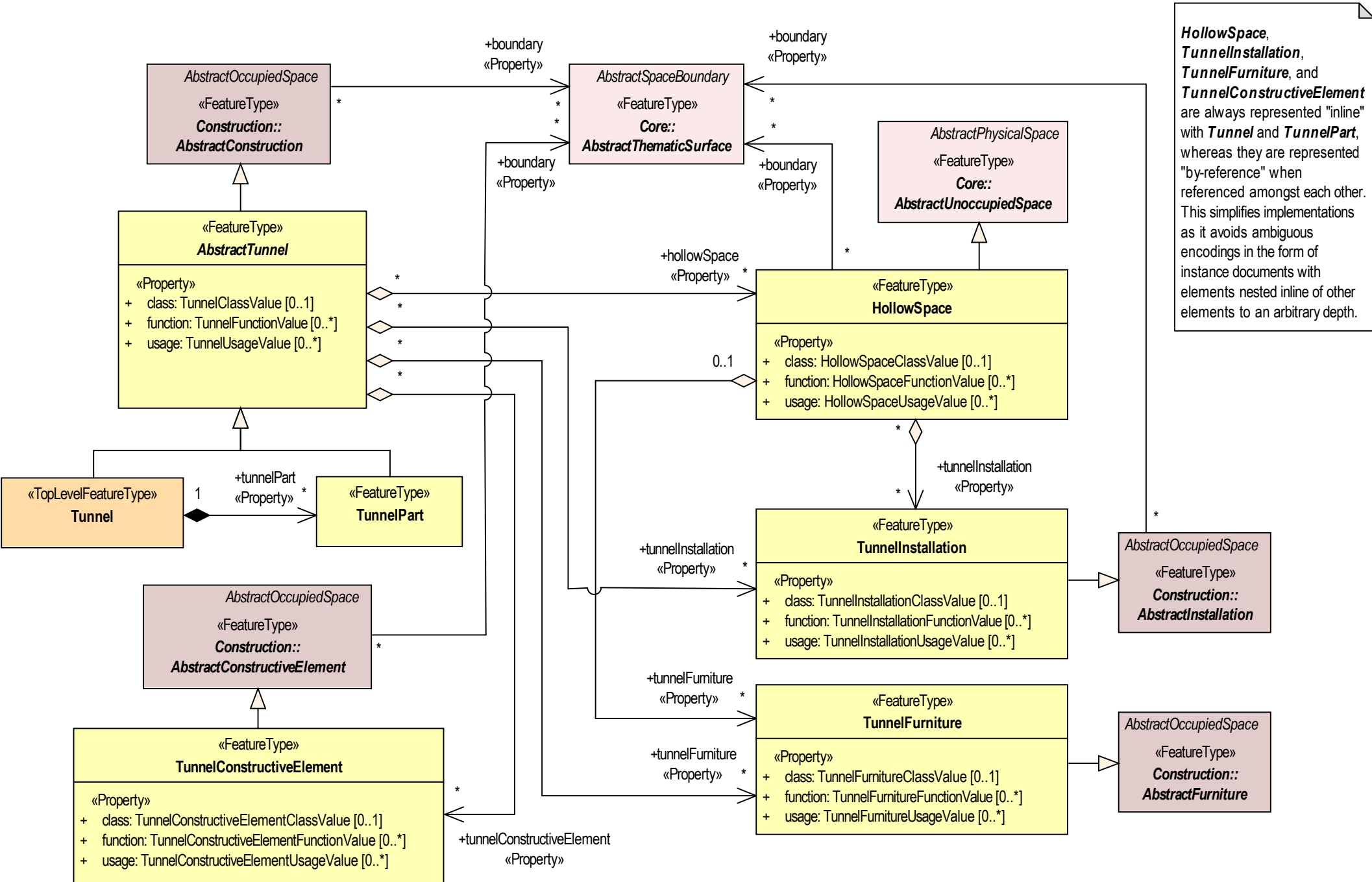
Transportation module



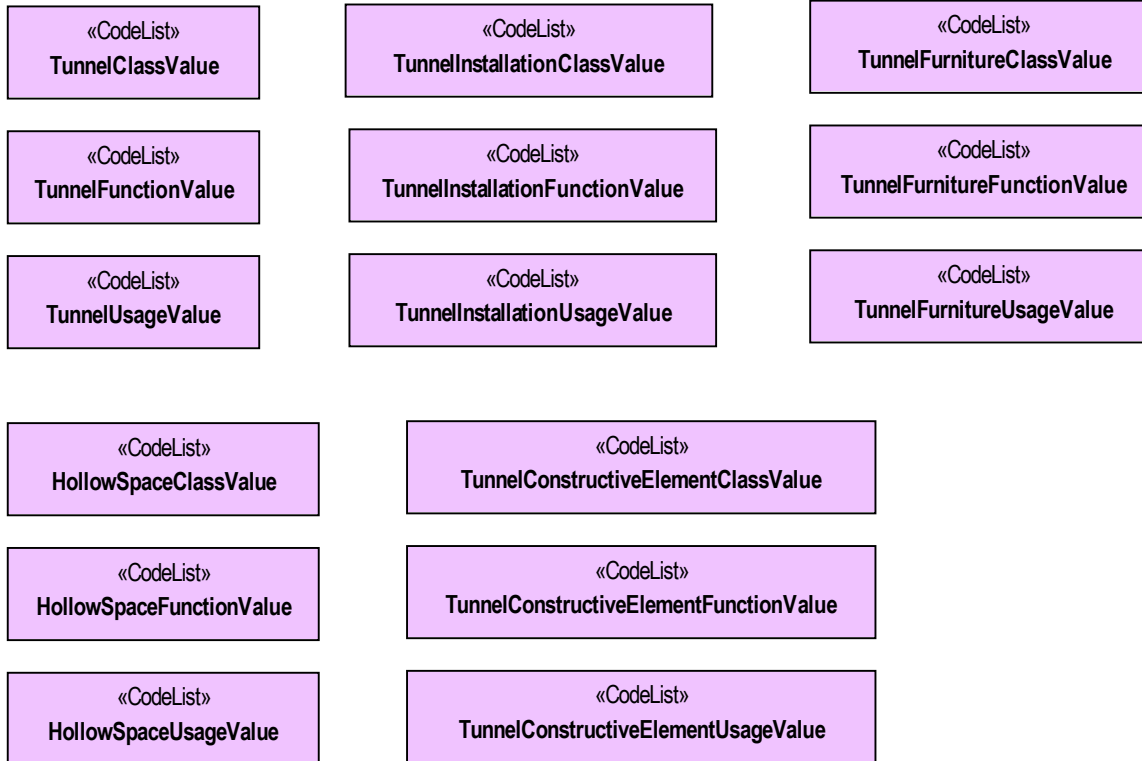
Transportation module - Code lists



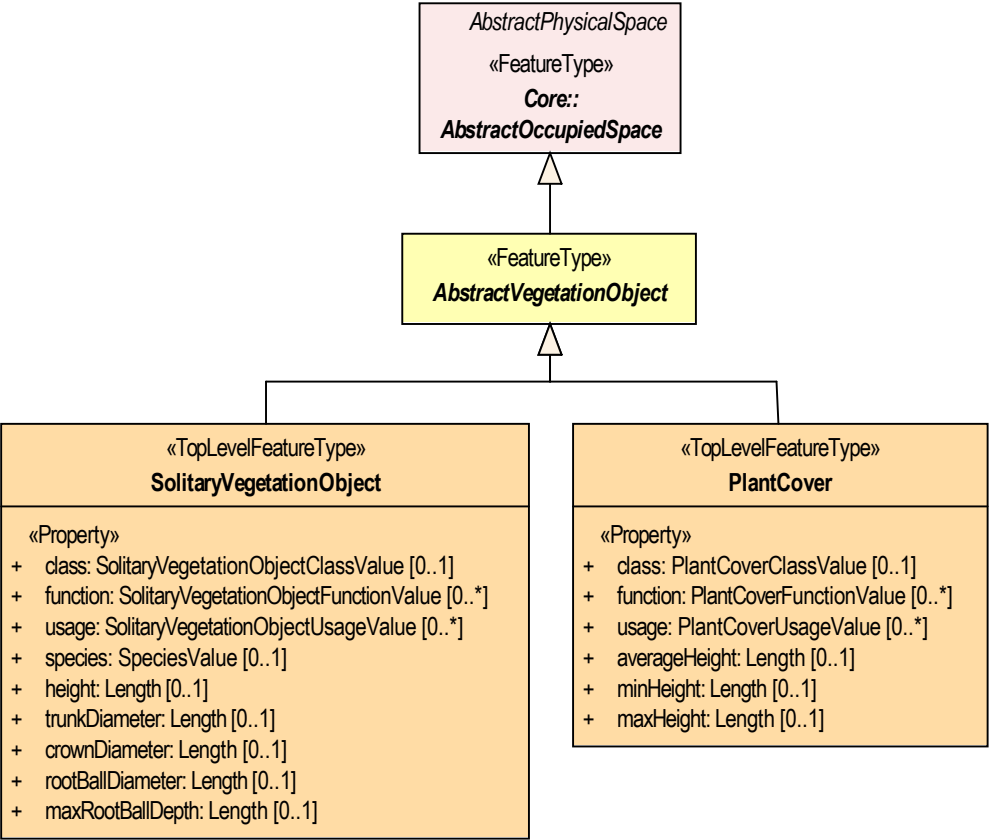
Tunnel module



Tunnel module - Code lists



Vegetation module



Vegetation module - Code lists

«CodeList»
SolitaryVegetationObjectClassValue

«CodeList»
SolitaryVegetationObjectFunctionValue

«CodeList»
SolitaryVegetationObjectUsageValue

«CodeList»
PlantCoverClassValue

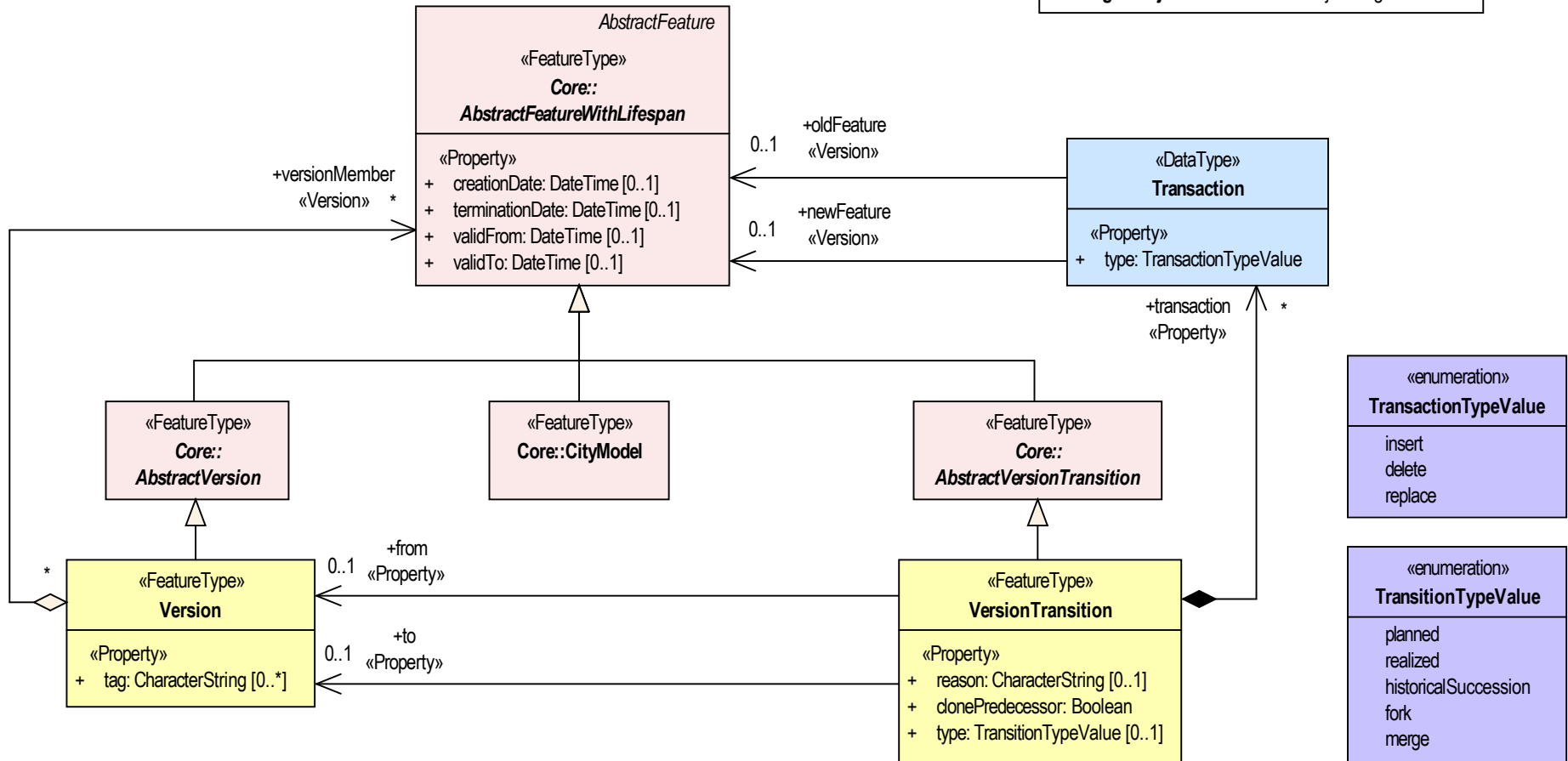
«CodeList»
PlantCoverFunctionValue

«CodeList»
PlantCoverUsageValue

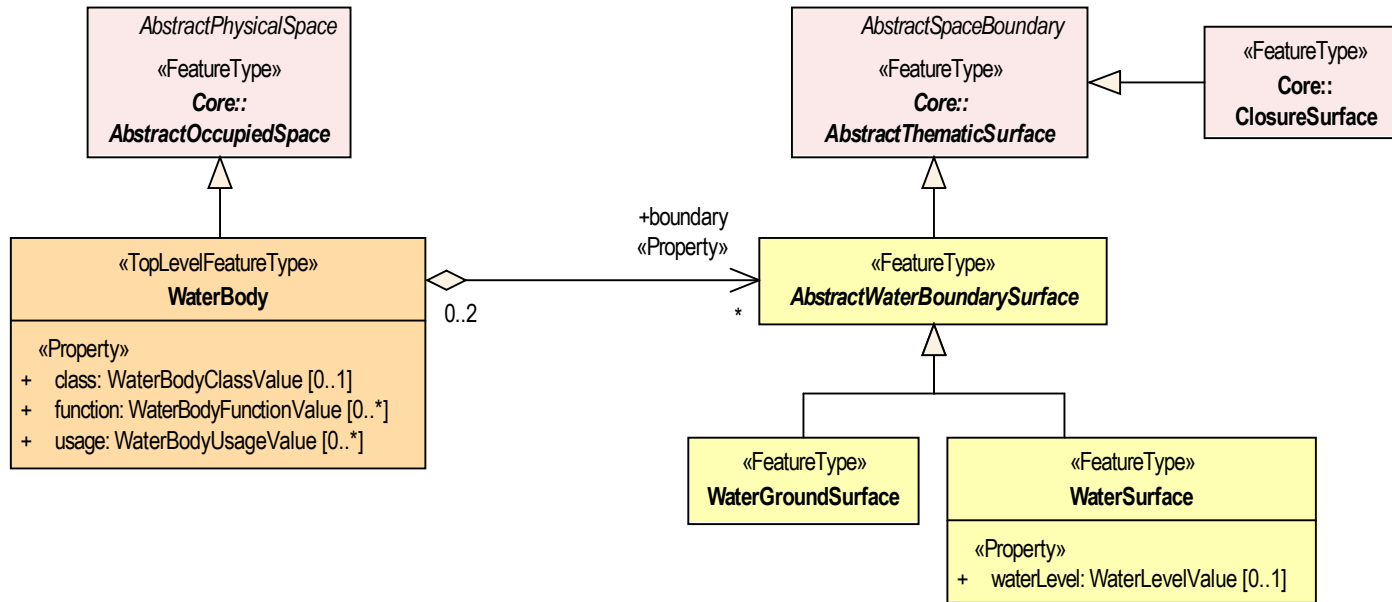
«CodeList»
SpeciesValue

Versioning module

The stereotype **«Version»** is adopted from INSPIRE. The stereotype is used for association roles to express that the **association refers to a specific version of the target object** and not to the object in general.



WaterBody module



WaterBody module - Code lists

«CodeList»
WaterBodyClassValue

«CodeList»
WaterBodyFunctionValue

«CodeList»
WaterBodyUsageValue

«CodeList»
WaterLevelValue