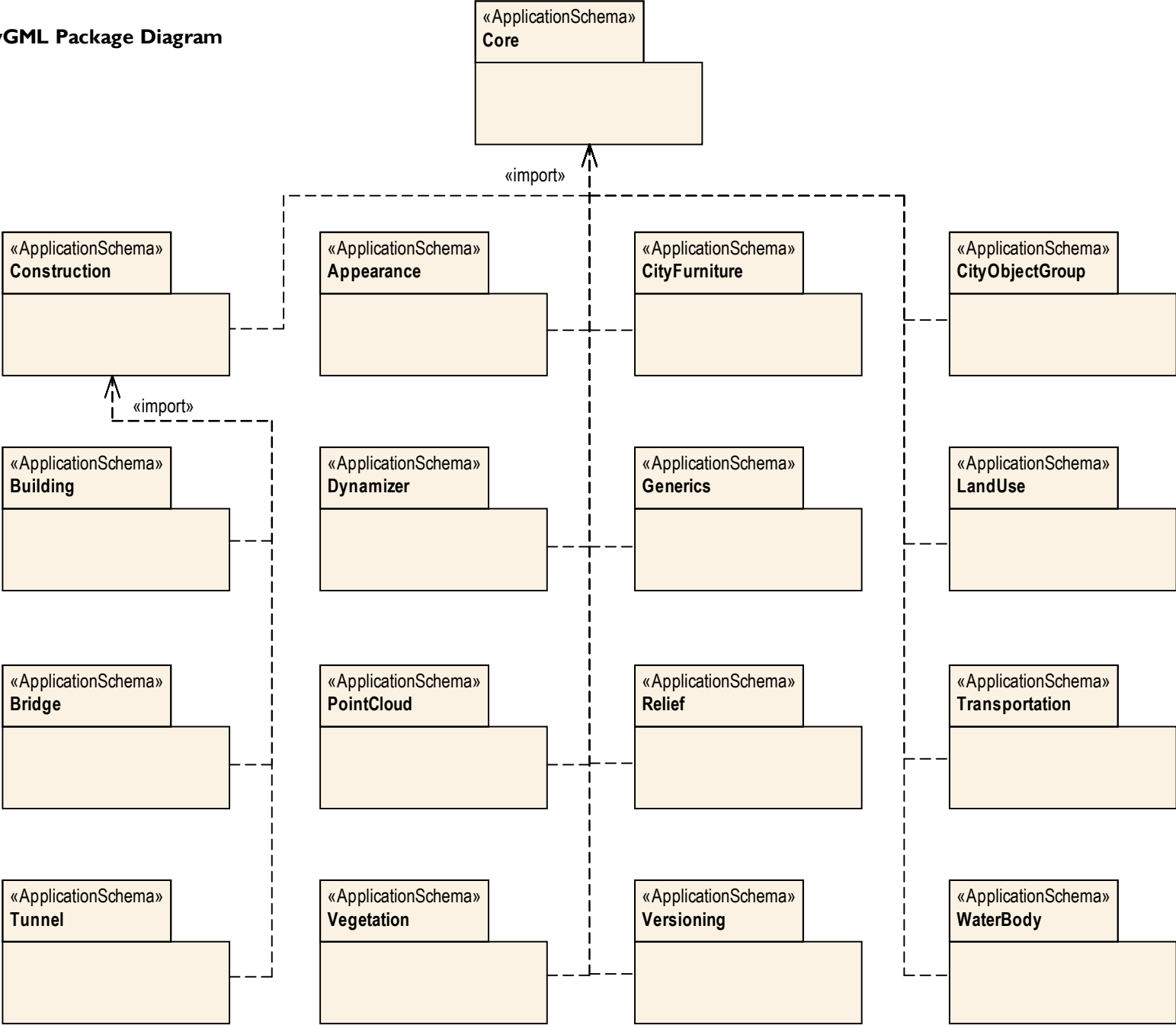
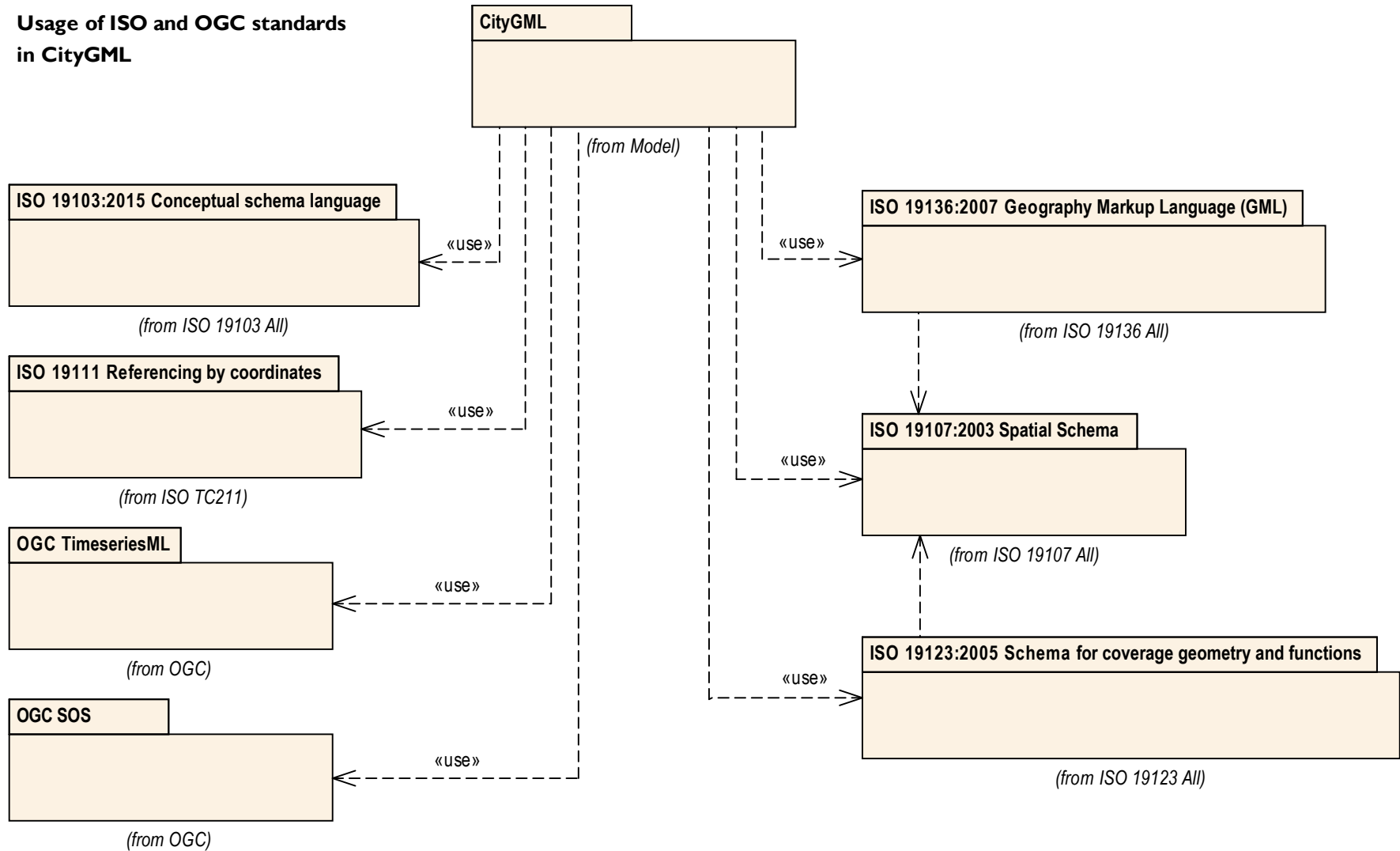
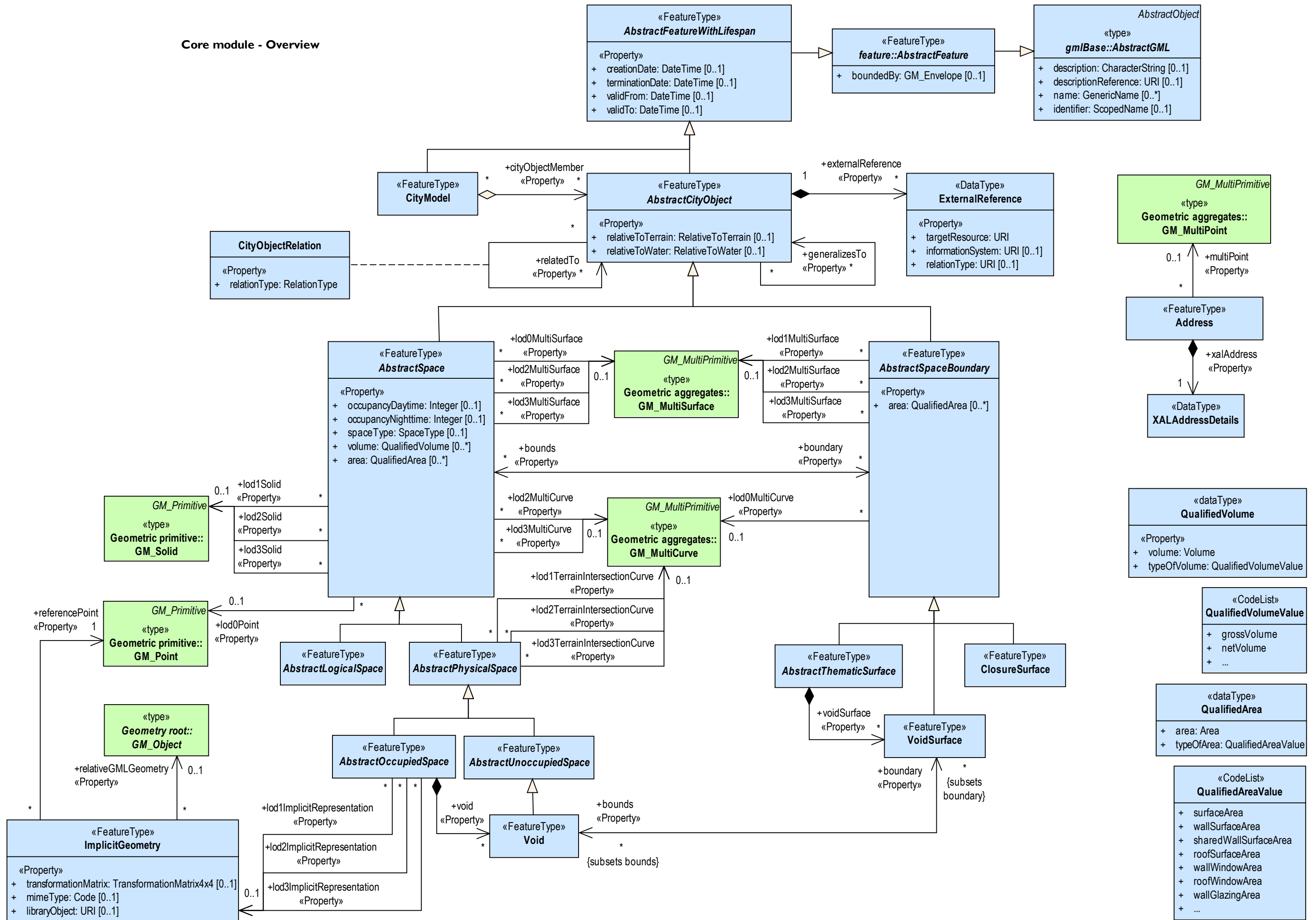


CityGML Package Diagram

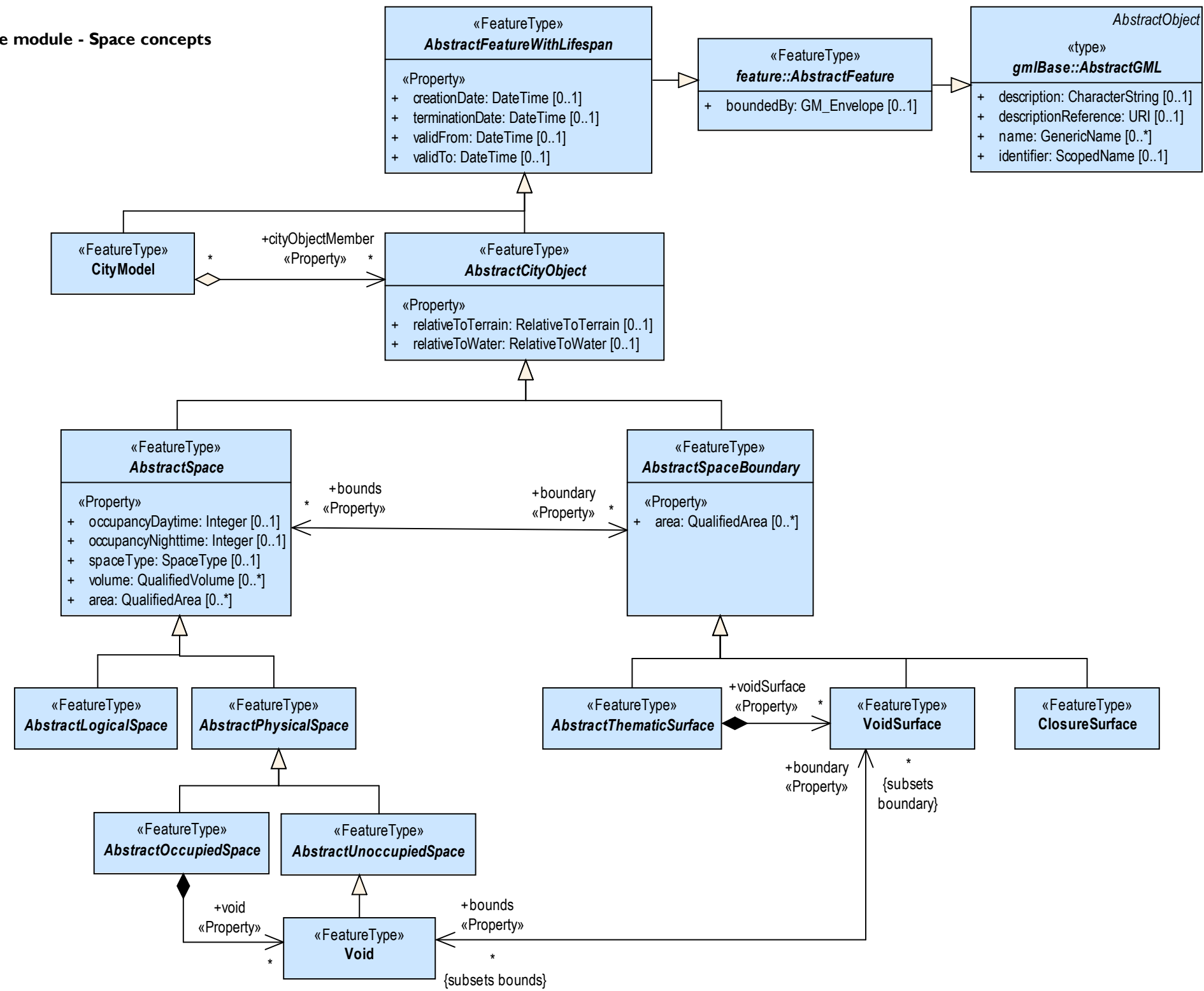


Usage of ISO and OGC standards in CityGML

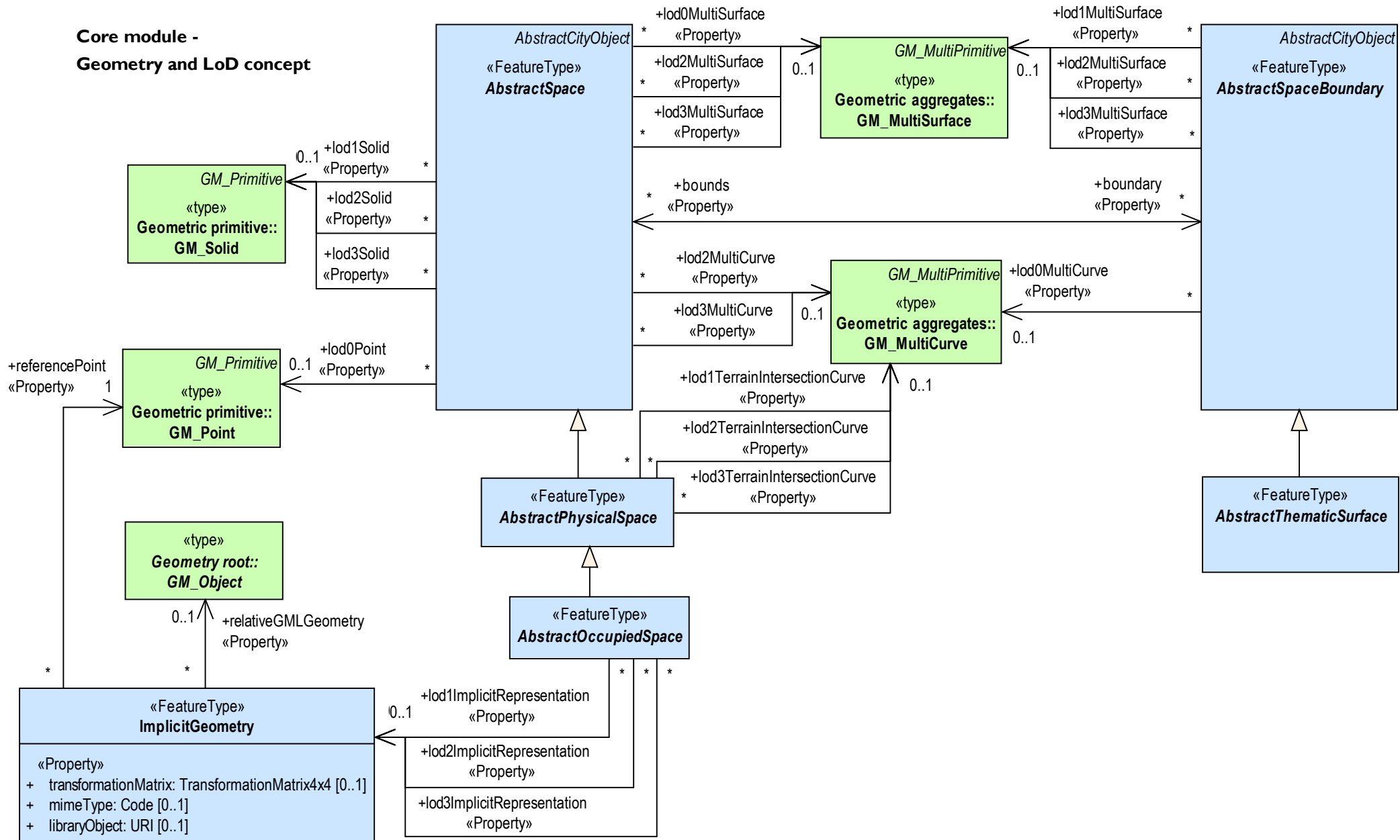




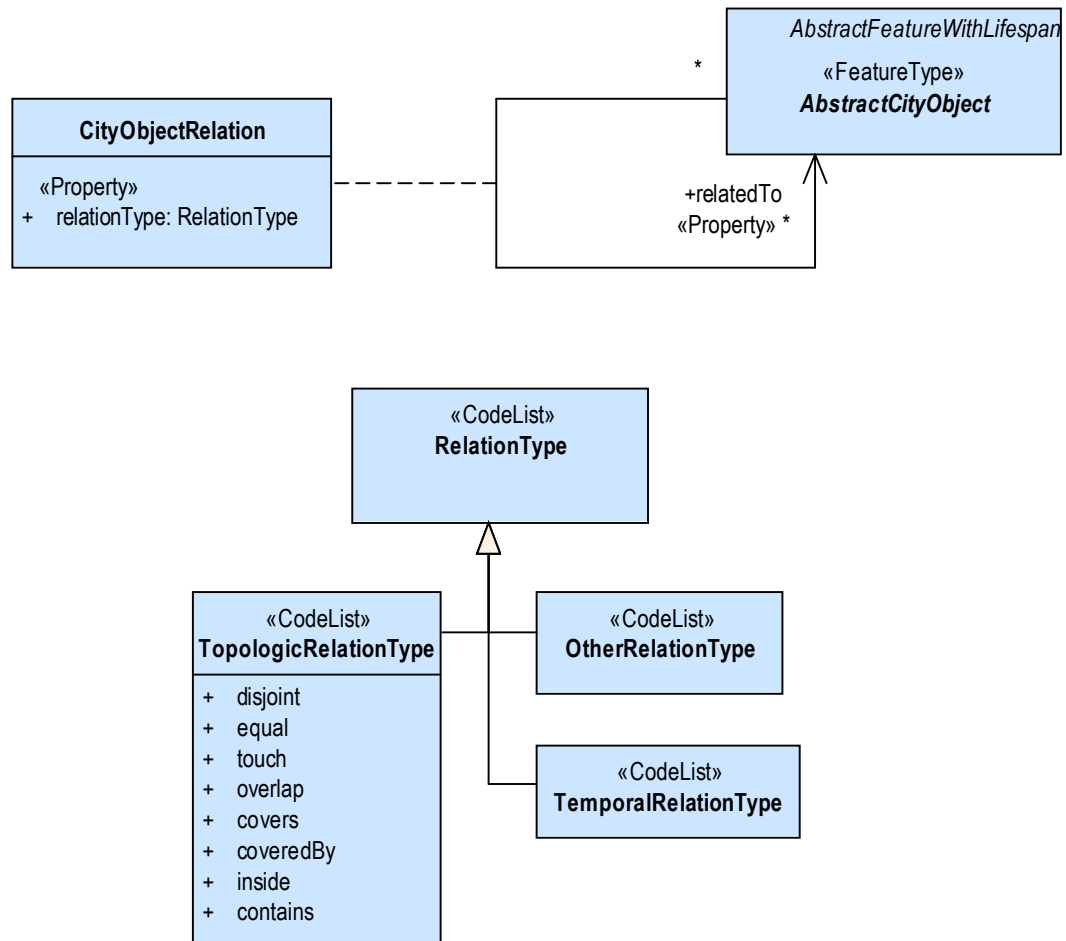
Core module - Space concepts



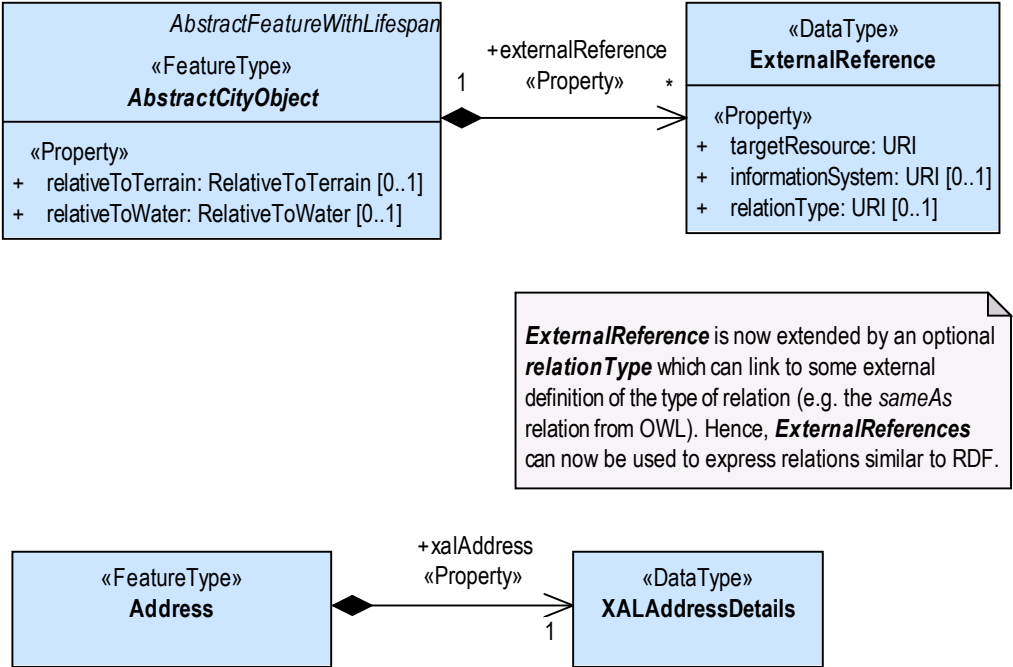
**Core module -
Geometry and LoD concept**



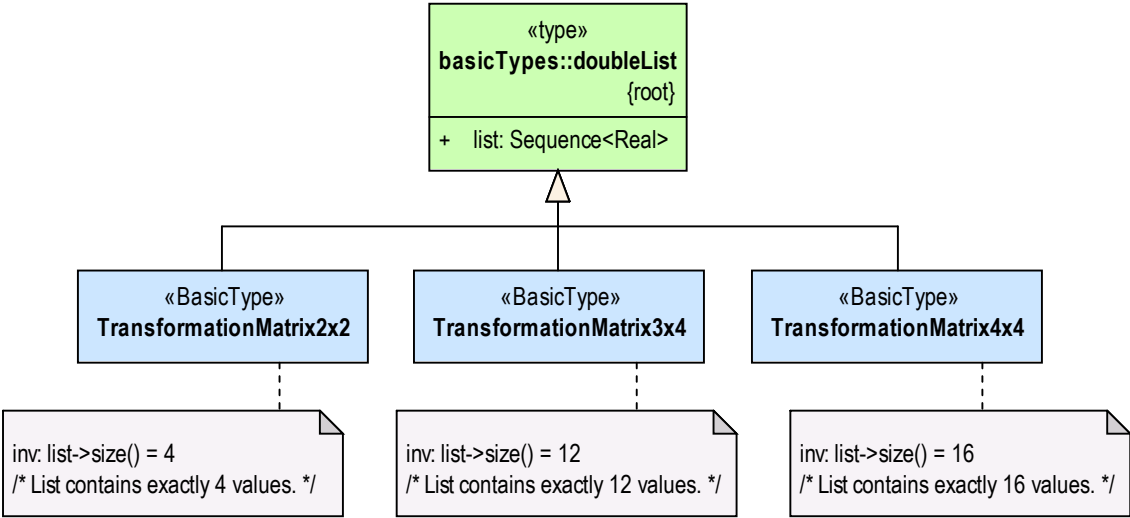
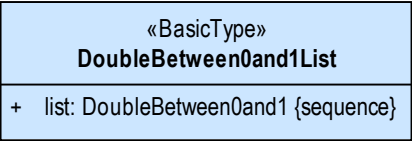
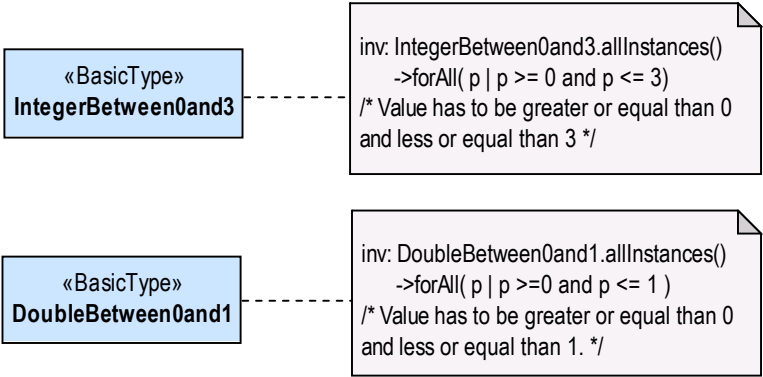
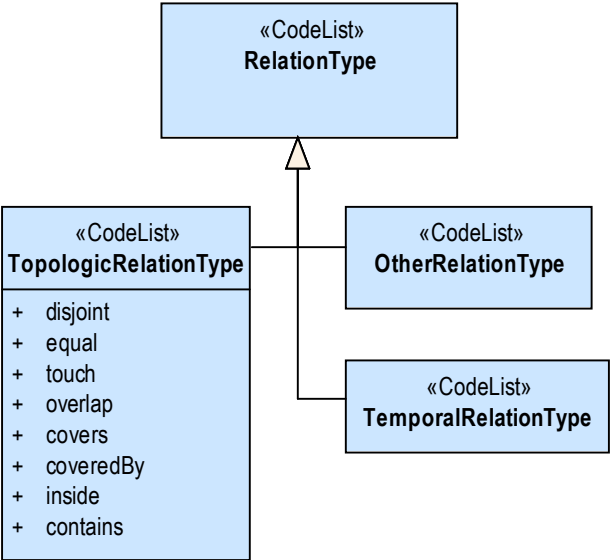
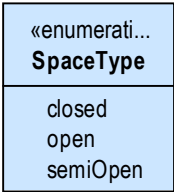
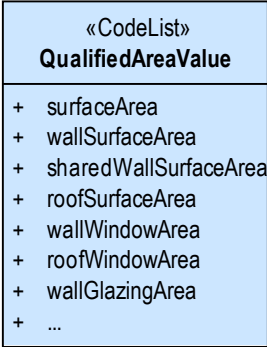
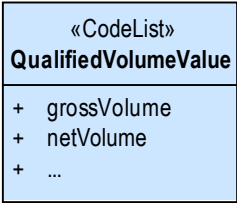
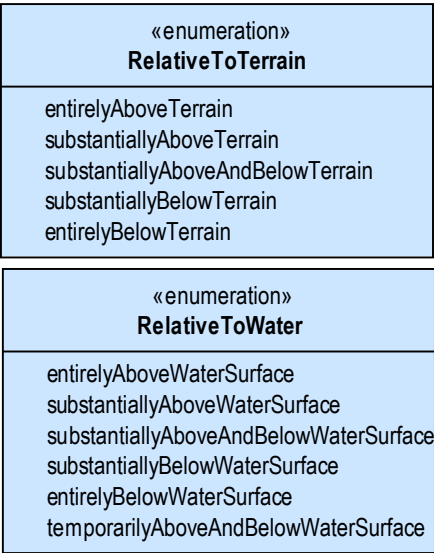
Core module - City object relations

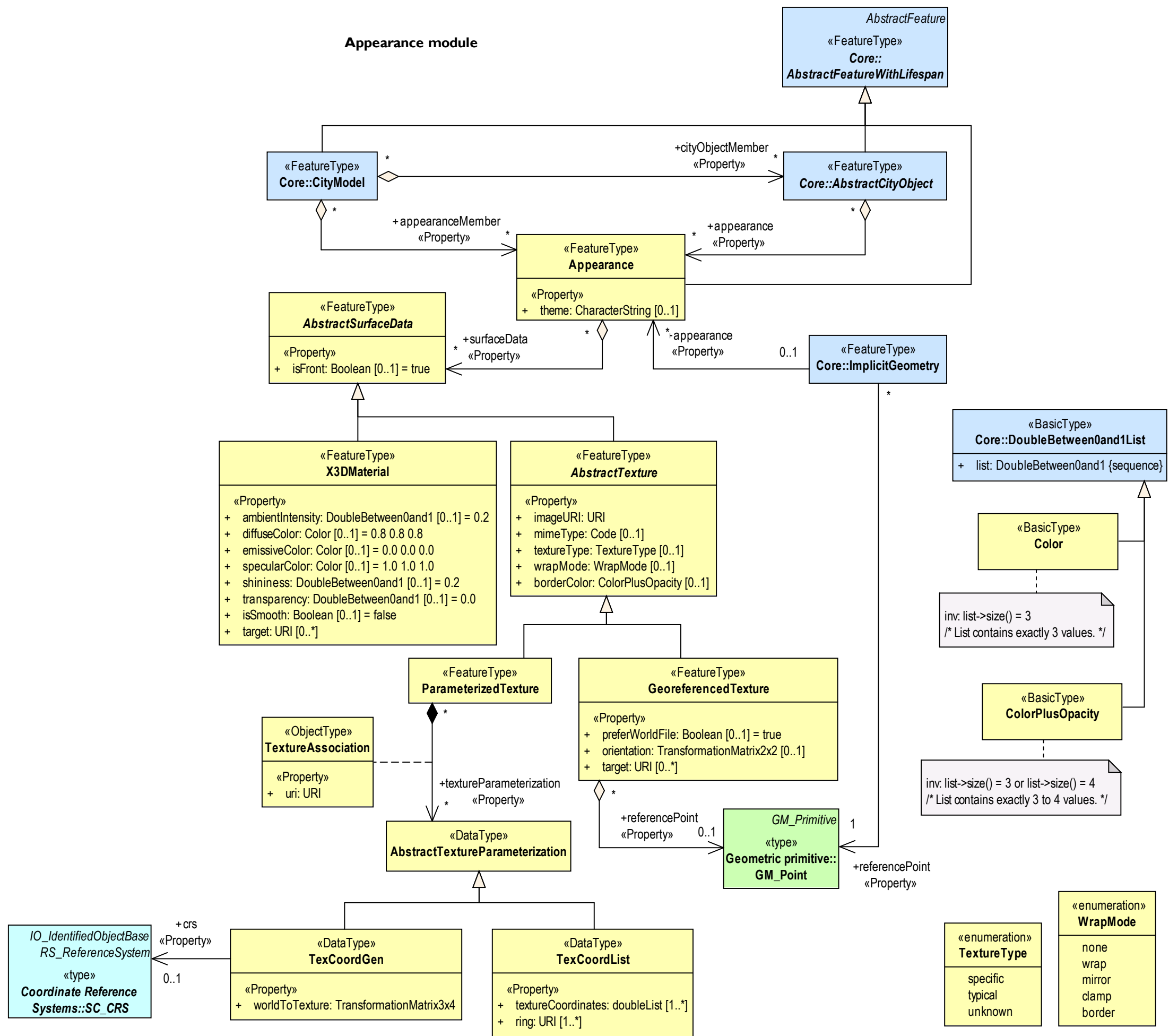


Core module - Miscellaneous

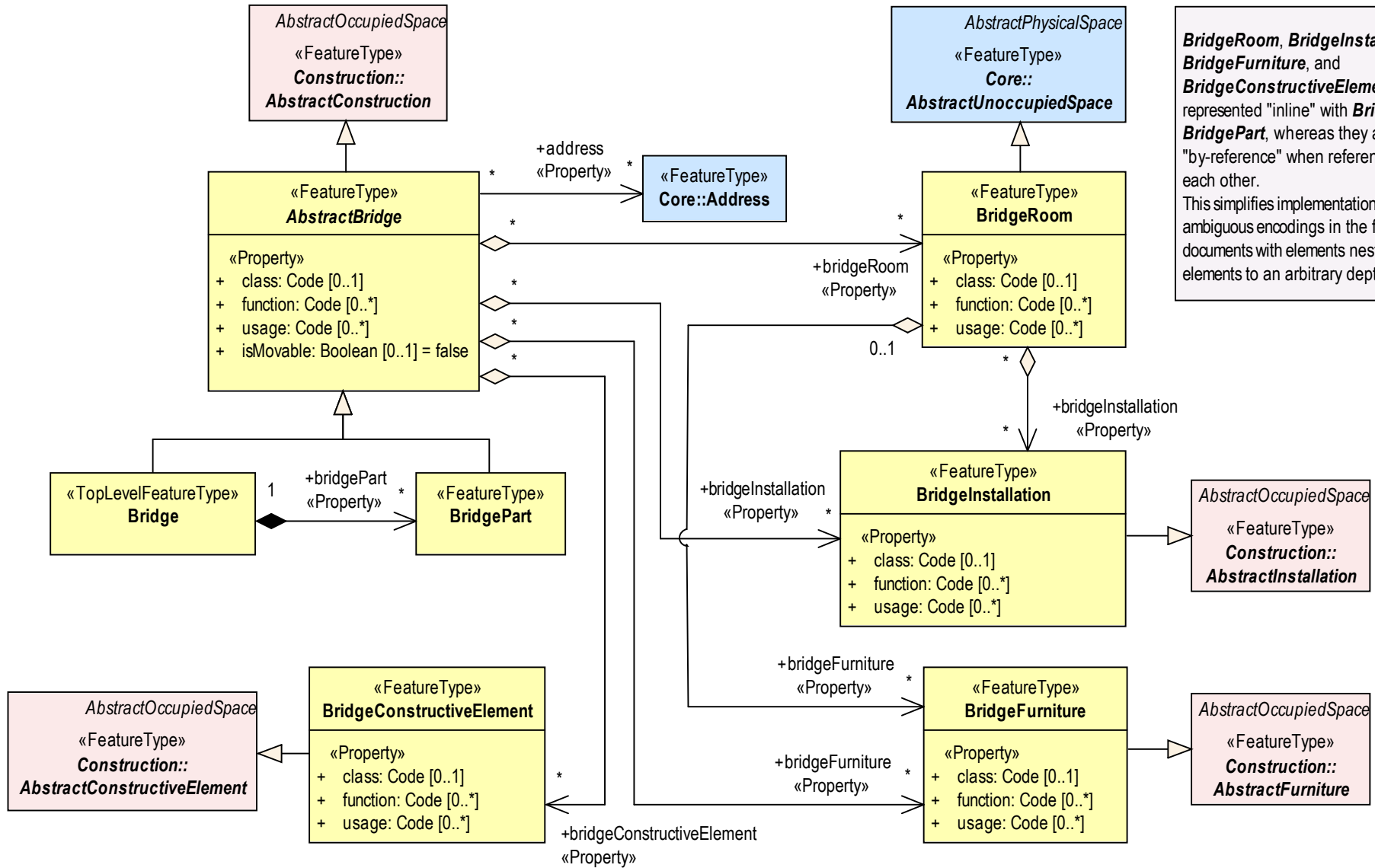


Core module - Basic Types and Enumerations



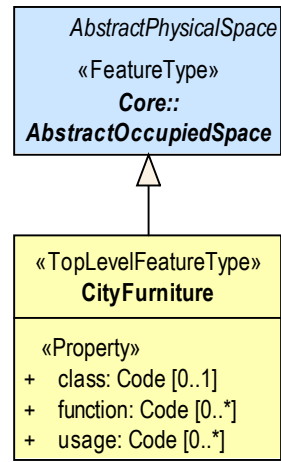


Bridge module

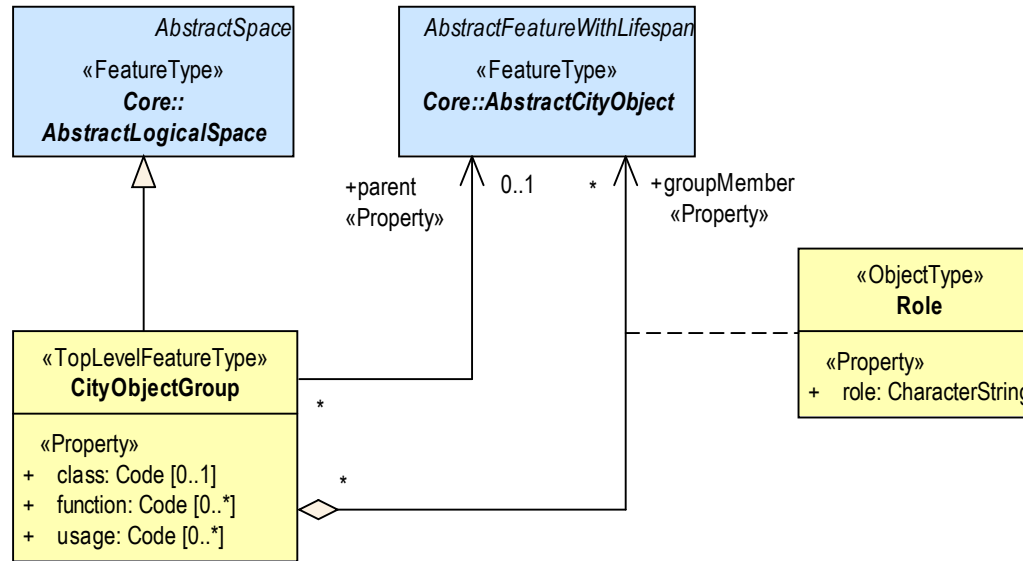


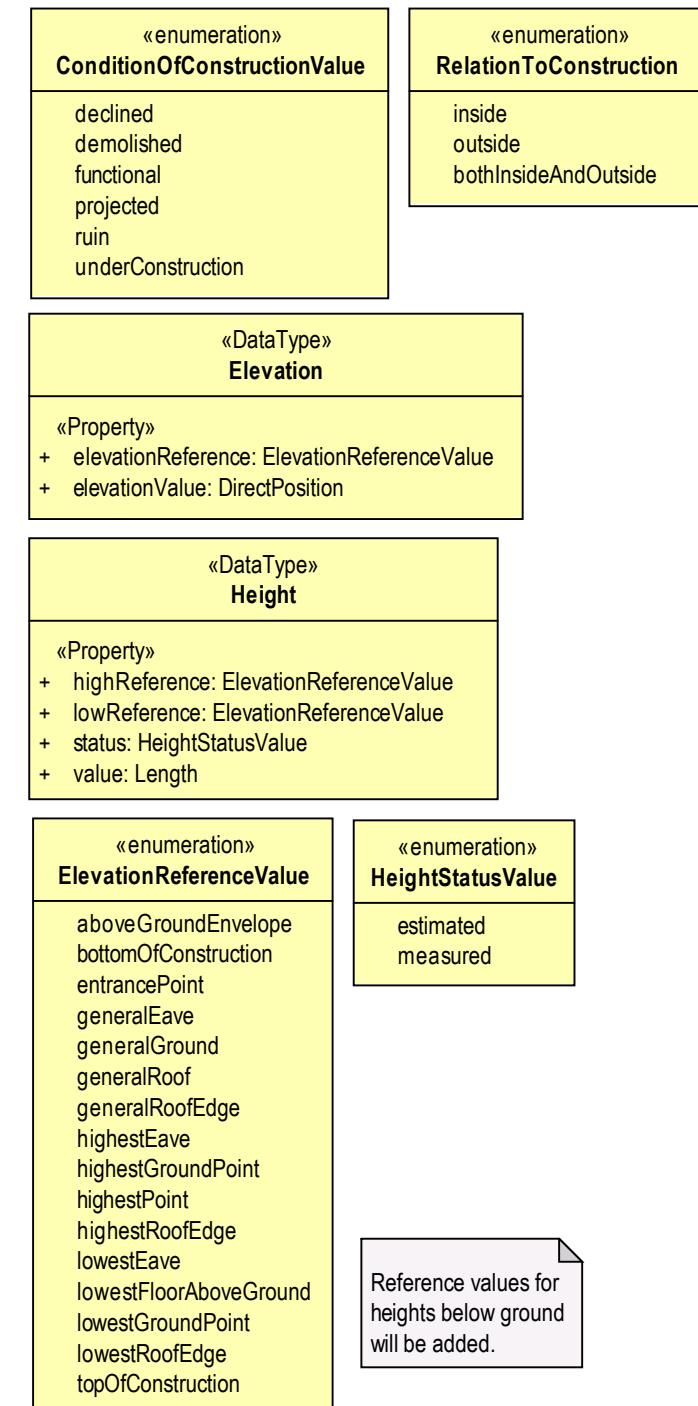
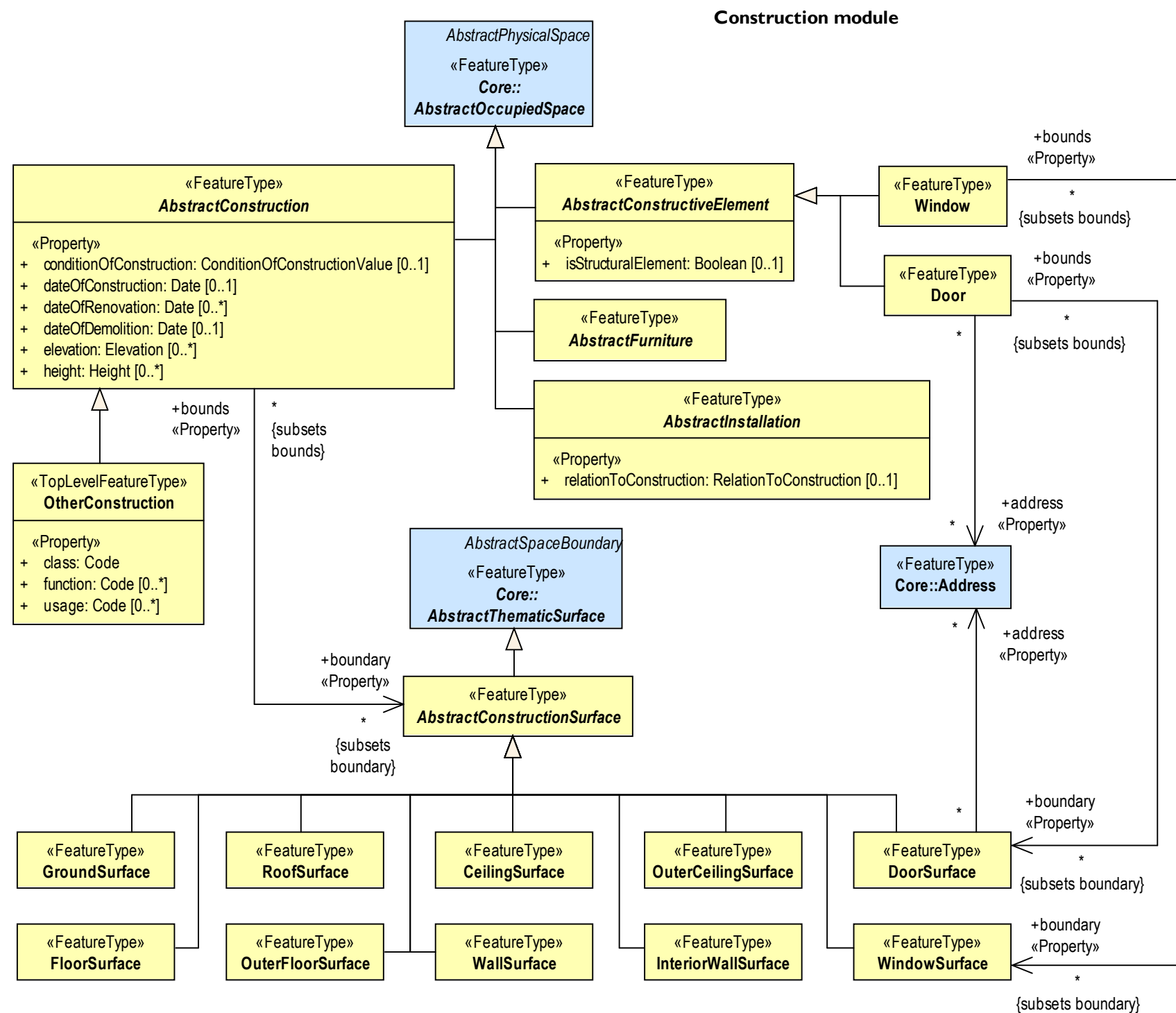
BridgeRoom, **BridgeInstallation**, **BridgeFurniture**, and **BridgeConstructiveElement** are always represented "inline" with **Bridge** and **BridgePart**, whereas they are represented "by-reference" when referenced amongst each other. This simplifies implementations as it avoids ambiguous encodings in the form of instance documents with elements nested inline of other elements to an arbitrary depth.

CityFurniture module

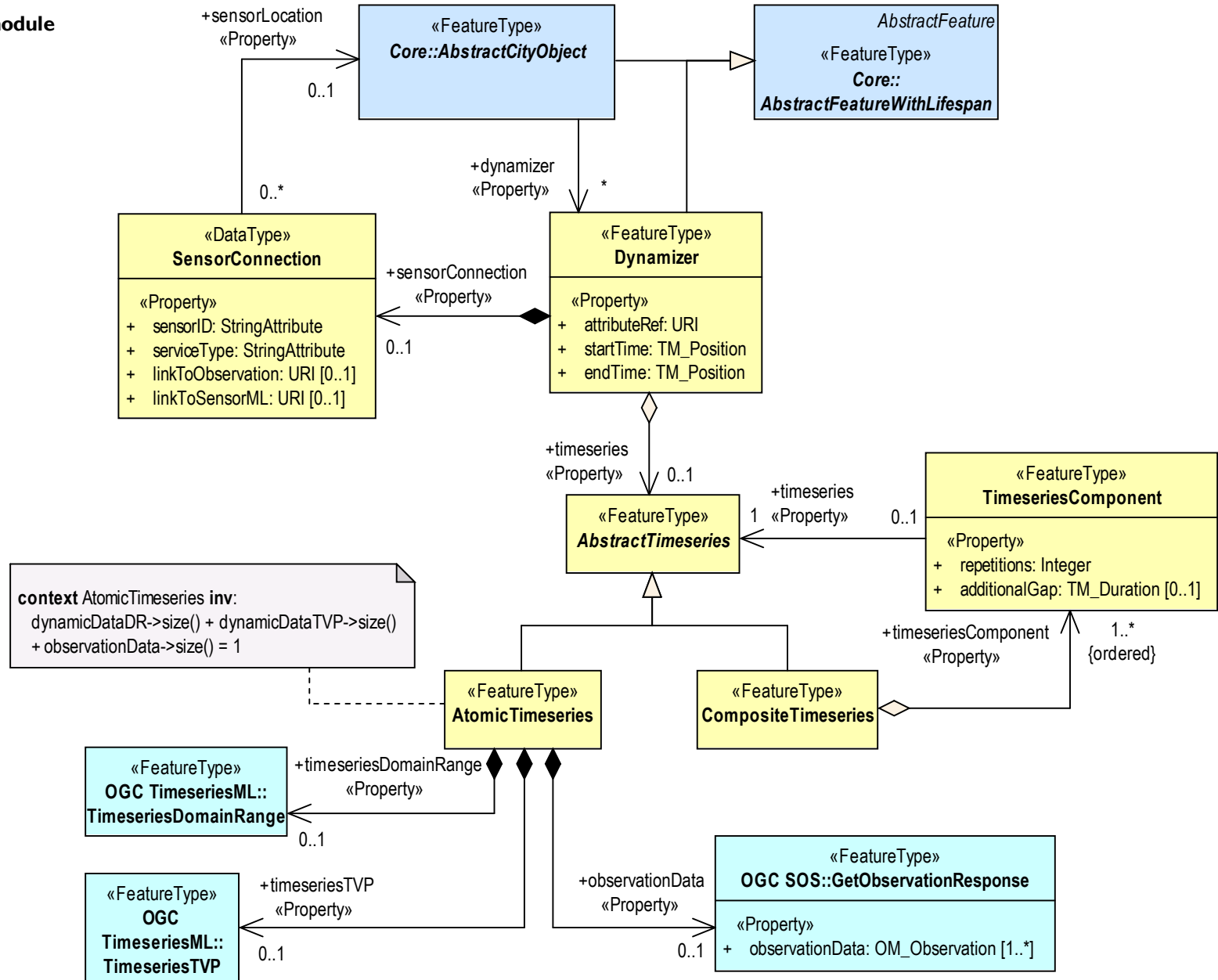


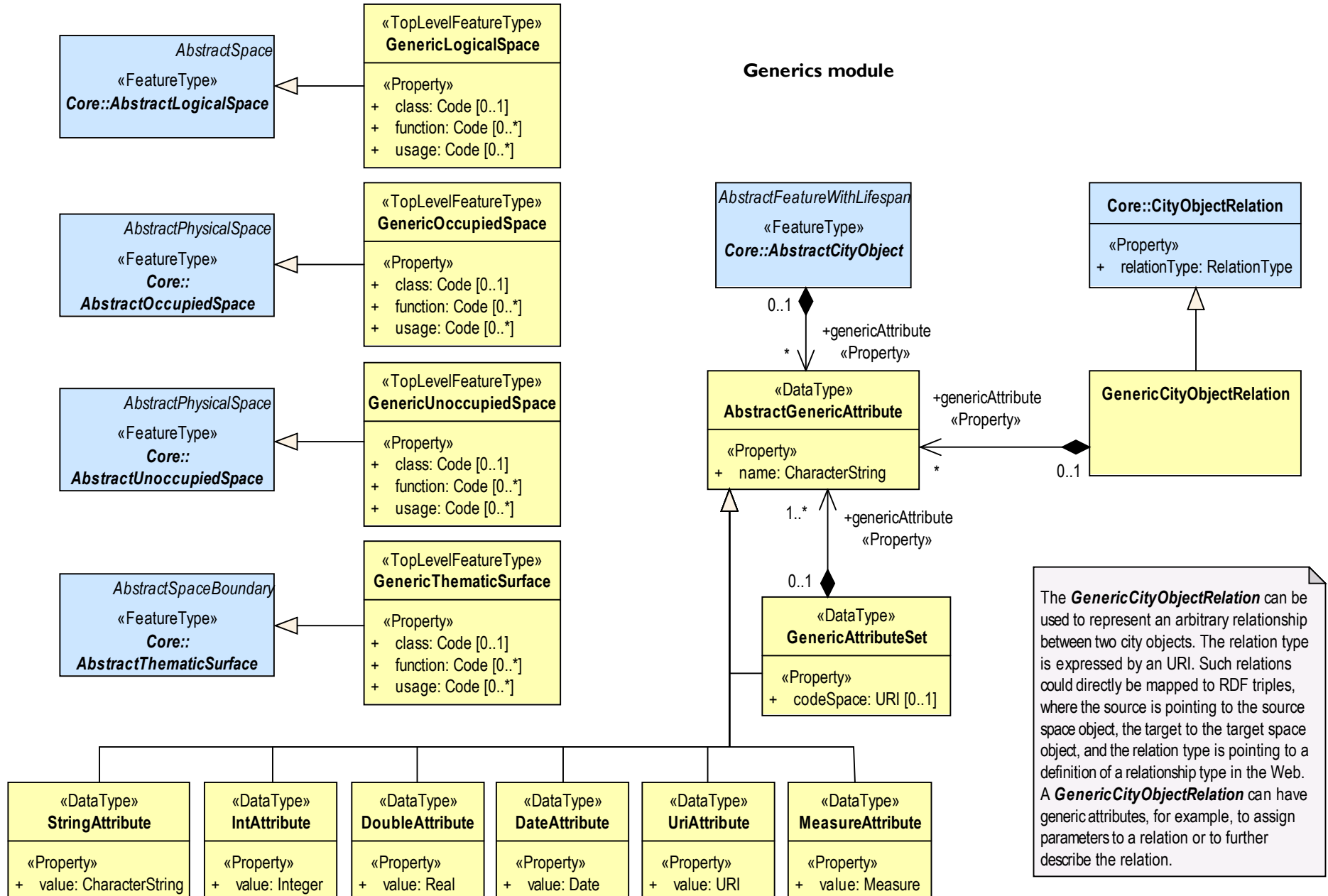
CityObjectGroup module



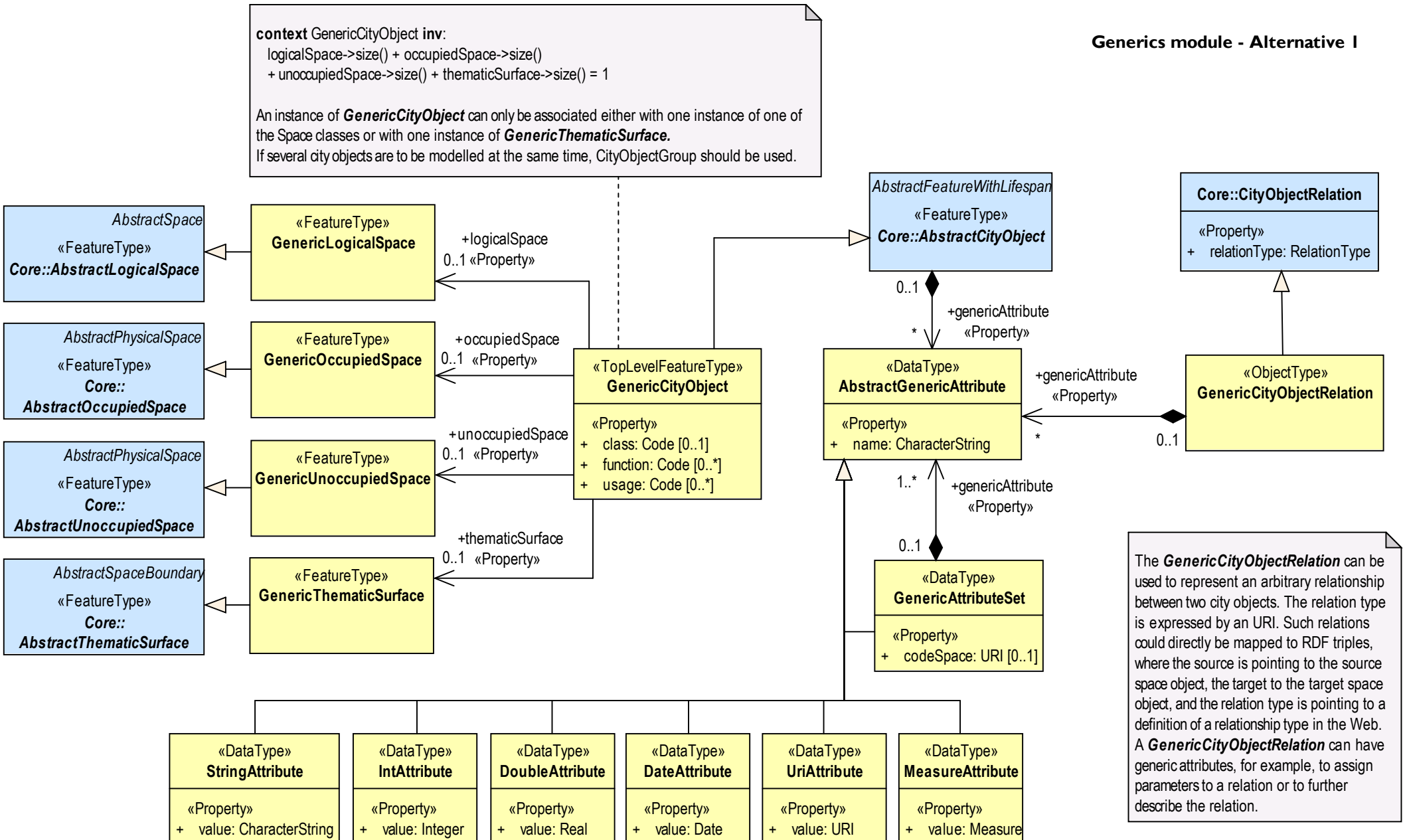


Dynamizer module

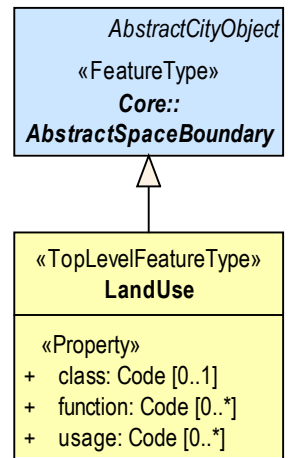




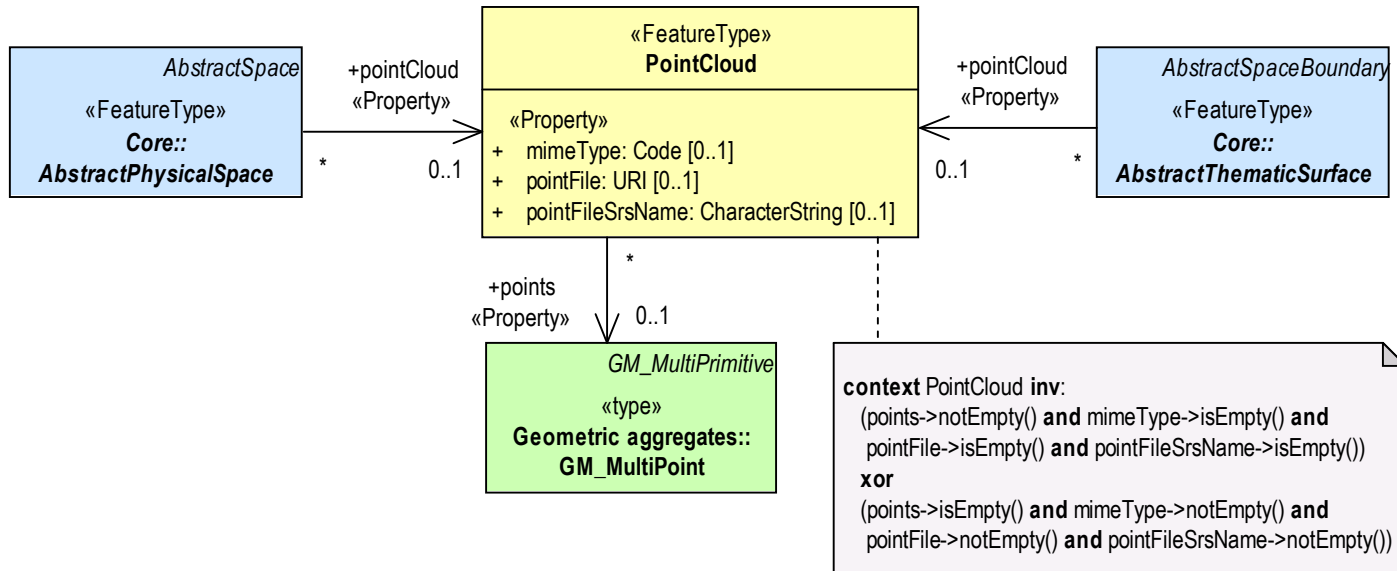
Generics module - Alternative I

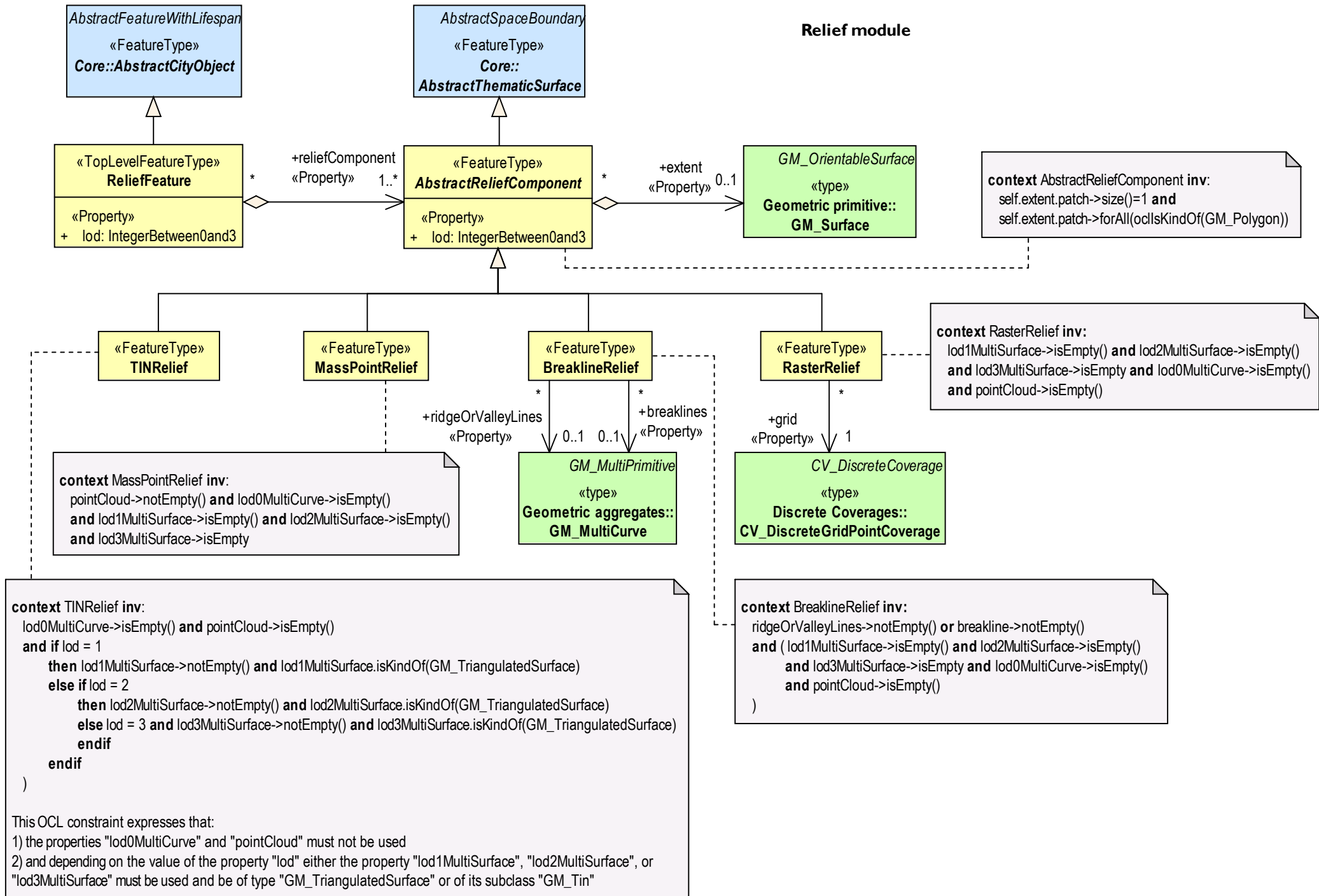


LandUse module



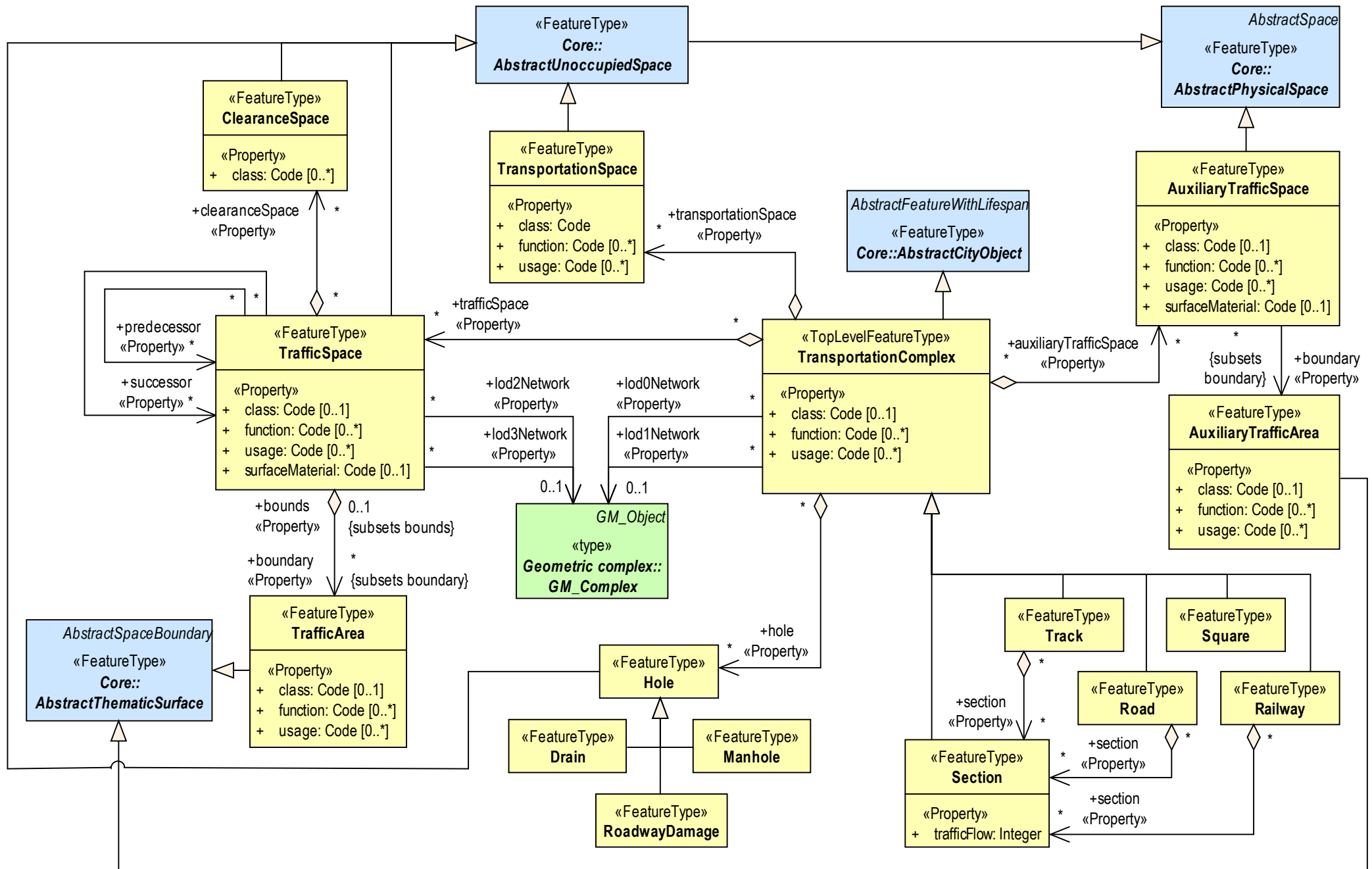
PointCloud module



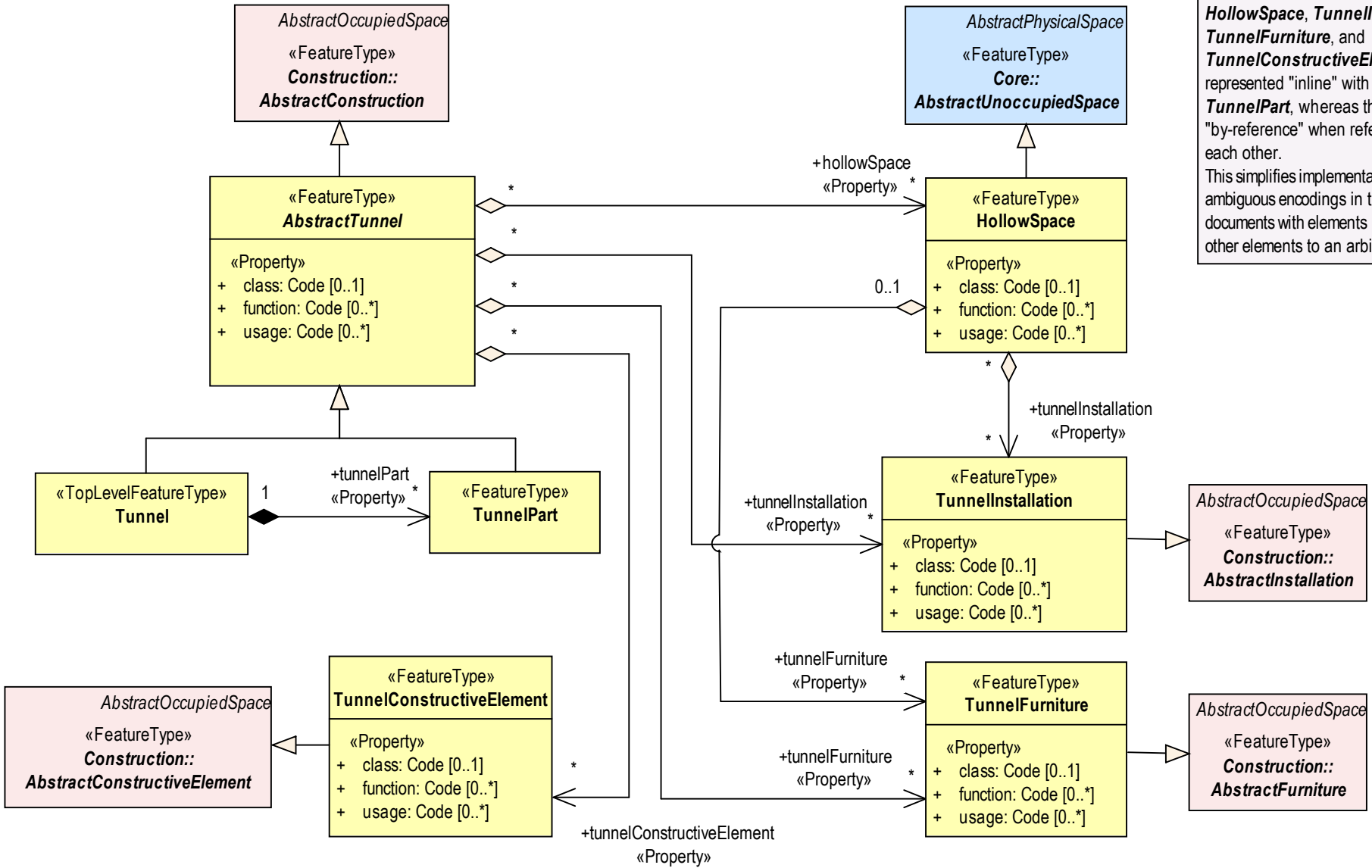


Transportation module

At the 3DGeoInfo conference at TU Delft early October 2018, a discussion between Anna Labetski and Thomas H. Kolbe took place regarding some refinements proposed by TU Delft in a conference paper. These refinements are going to be integrated. The current diagram only reflects the refined modelling of the TopLevelFeatureType concept.



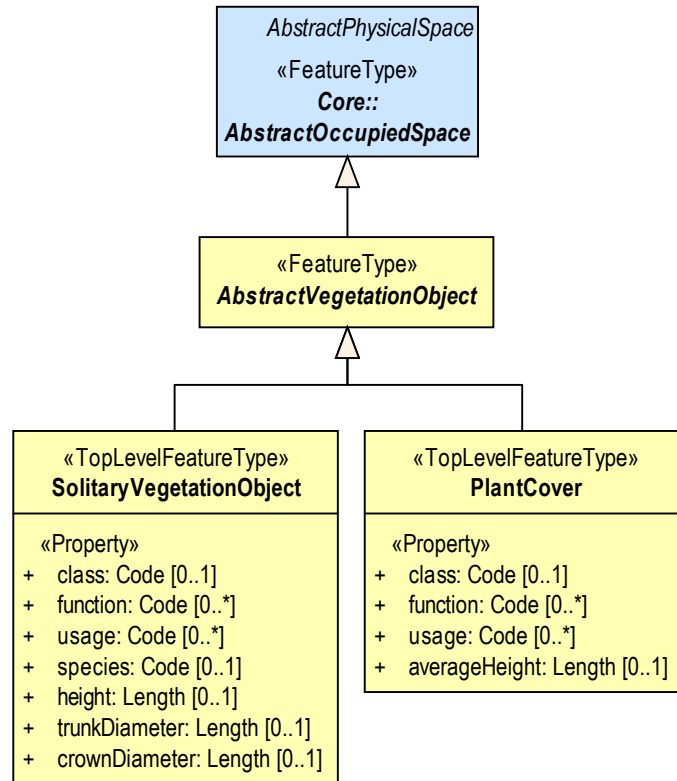
Tunnel module



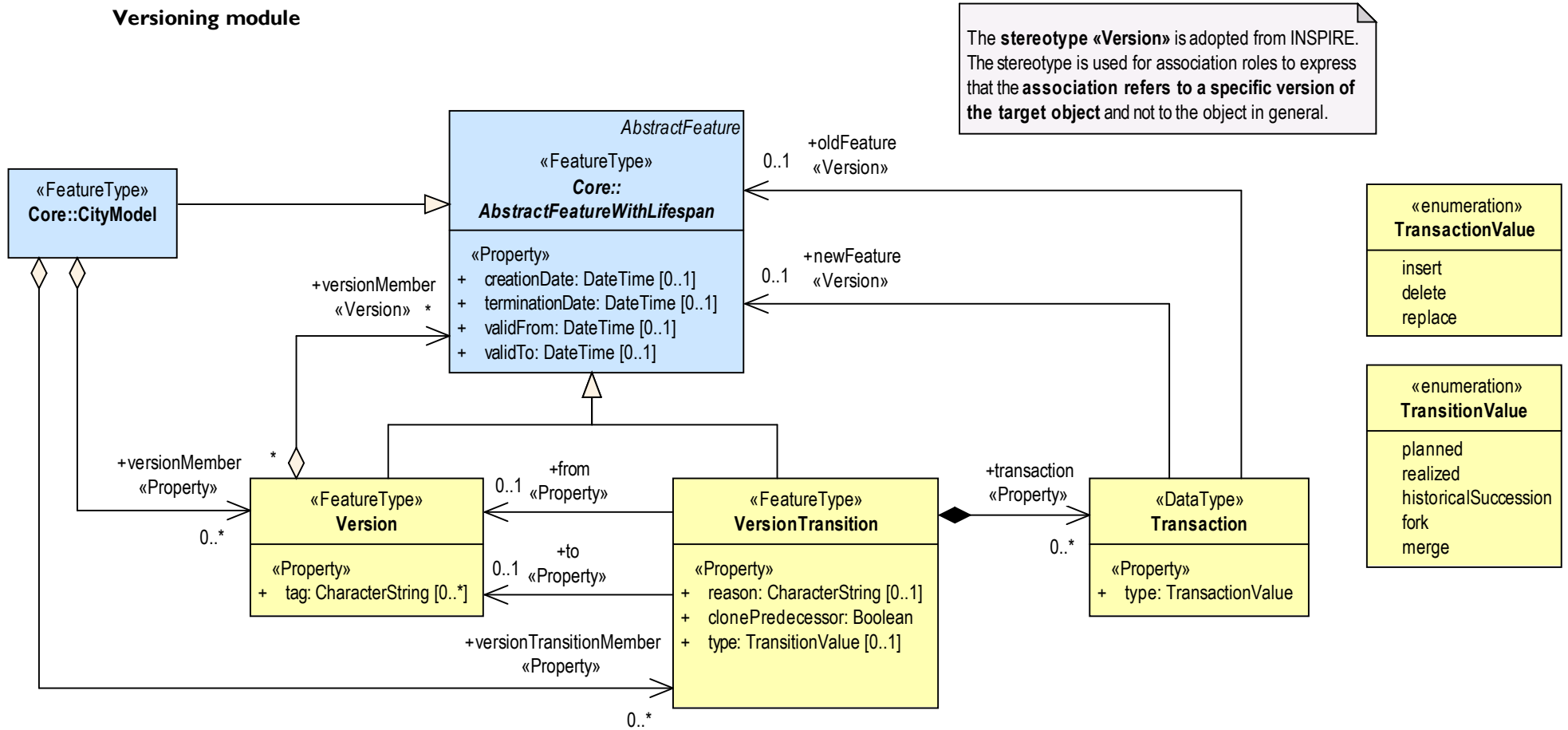
HollowSpace, ***TunnellInstallation***, ***TunnellFurniture***, and ***TunnellConstructiveElement*** are always represented "inline" with ***Tunnell*** and ***TunnellPart***, whereas they are represented "by-reference" when referenced amongst each other.

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.

Vegetation module



Versioning module



WaterBody module

