

HollowSpace, TunnelInstallation, TunnelFurniture, and TunnelConstructiveElement are always represented "inline" with Tunnel and TunnelPart, 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»

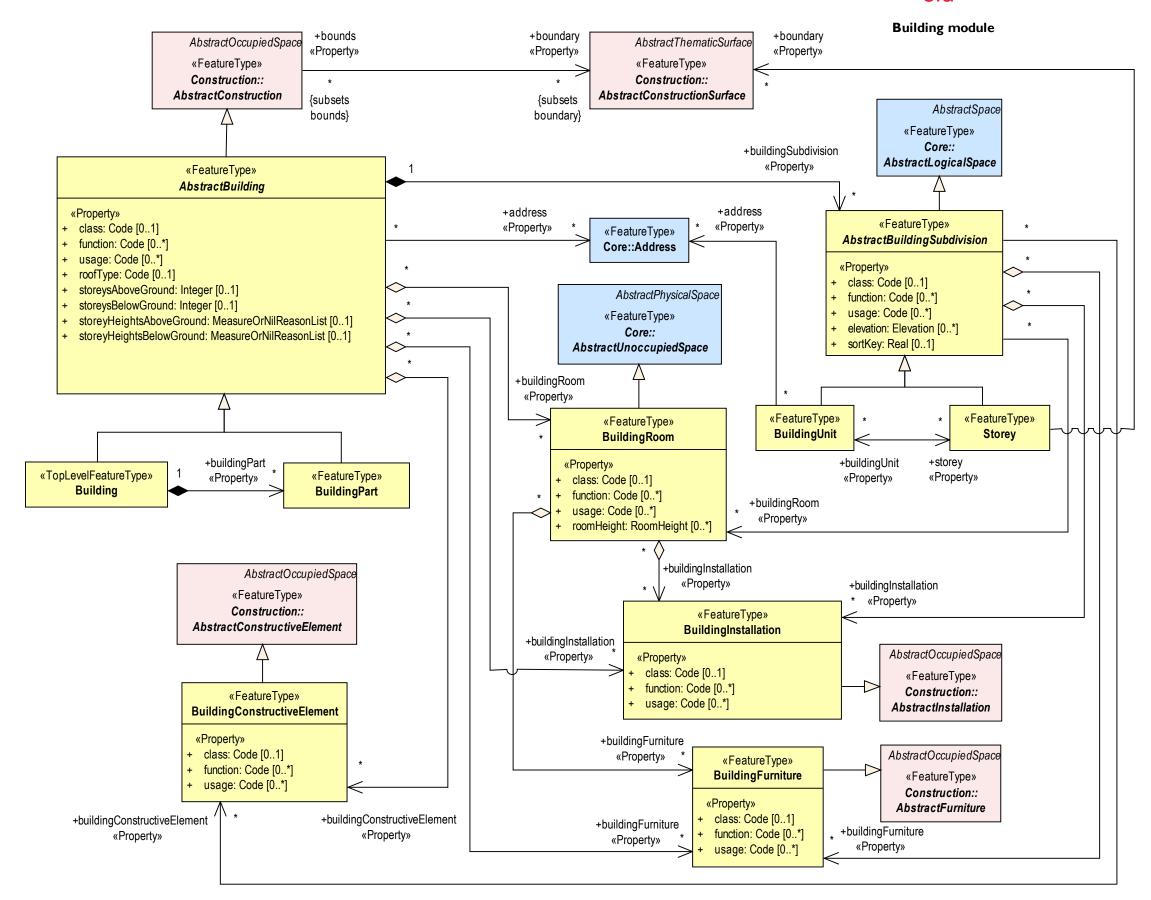
- highReference: RoomElevationReferenceValue
- + lowReference: RoomElevationReferenceValue
- status: HeightStatusValue
- + value: Length

«enumeration»

RoomElevationReferenceValue

tbd

old



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«dataType» RoomHeight

«Property»

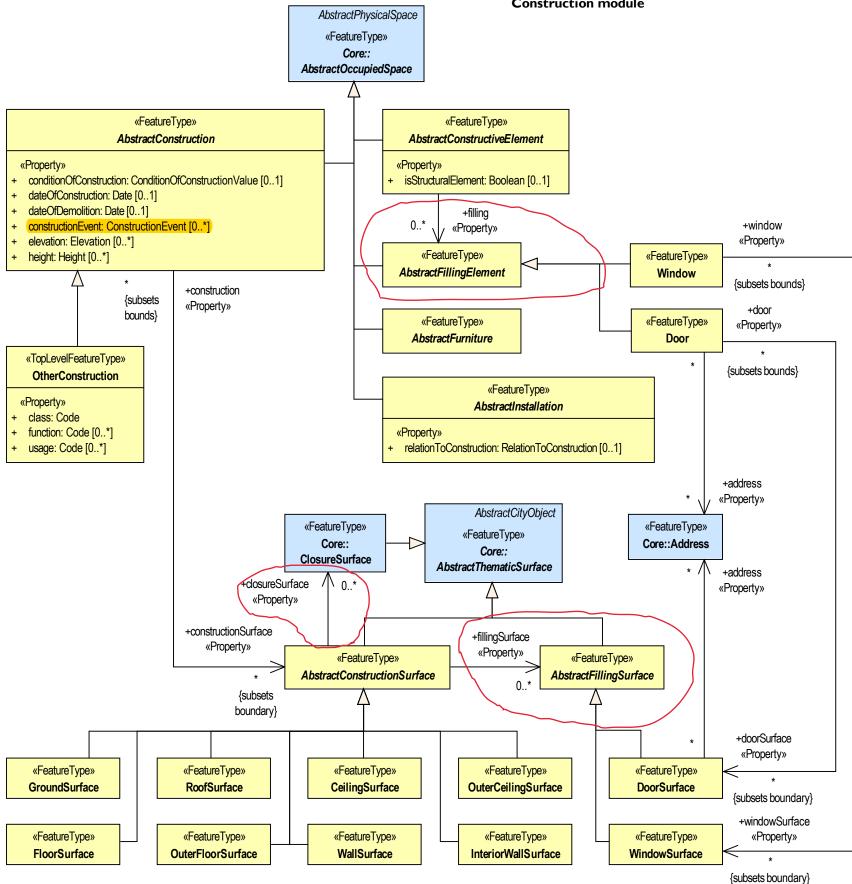
- + highReference: RoomElevationReferenceValue
- + lowReference: RoomElevationReferenceValue
- + status: HeightStatusValue
- + value: Length

«enumeration»

RoomElevationReferenceValue

tbd

Construction module



«enumeration»

ConditionOfConstructionValue

declined demolished functional projected ruin underConstruction «enumeration»

RelationToConstruction

outside bothInsideAndOutside

inside

«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 IowestEave lowestFloorAboveGround **IowestGroundPoint** IowestRoofEdge

«enumeration» **HeightStatusValue**

estimated measured

Reference values for heights below ground will be added.

«DataType» ConstructionEvent

«Property»

event: EventValue

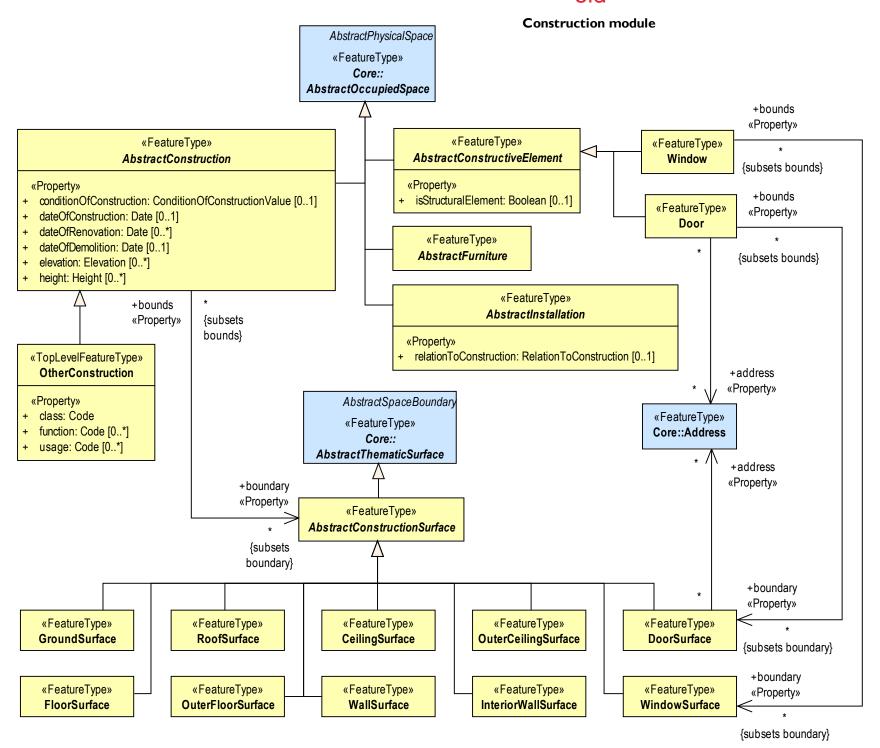
topOfConstruction

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

«CodeList» **EventValue**

- buildingPermit
- startOfRenovation
- endOfRenovation

old



«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

above Ground Envelope bottomOfConstruction entrancePoint generalEave generalGround generalRoof generalRoofEdge highestEave highestGroundPoint highestPoint highestRoofEdge IowestEave IowestFloorAboveGround IowestGroundPoint IowestRoofEdge topOfConstruction

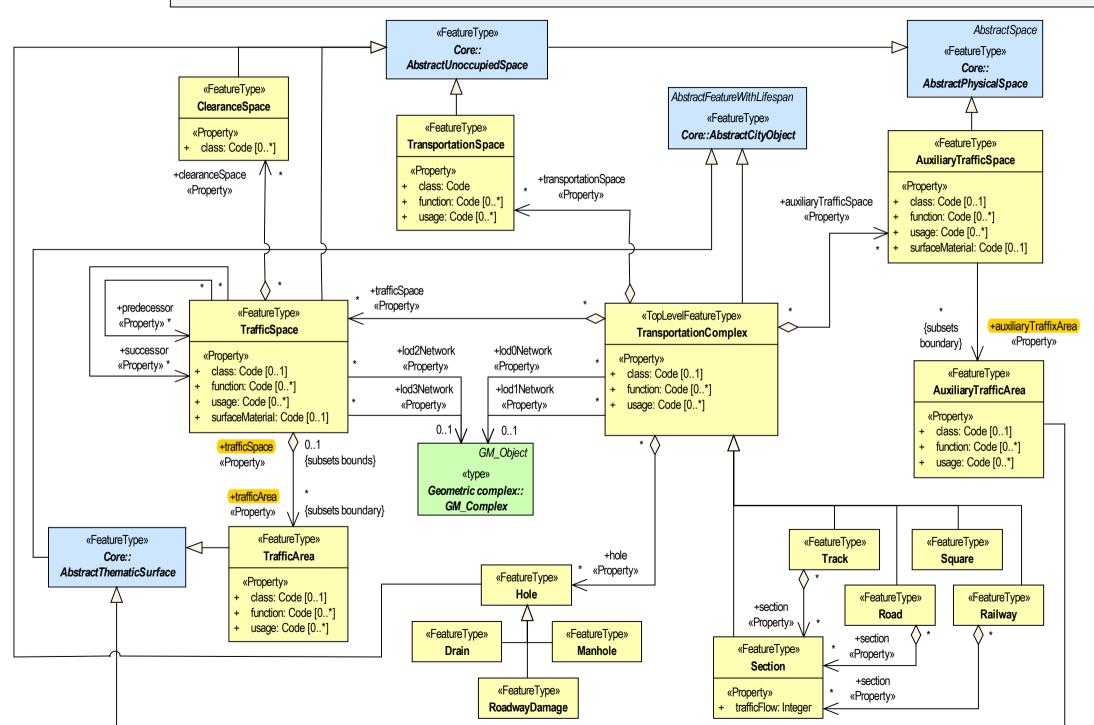
«enumeration» HeightStatusValue

estimated measured

Reference values for heights below ground will be added.

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.

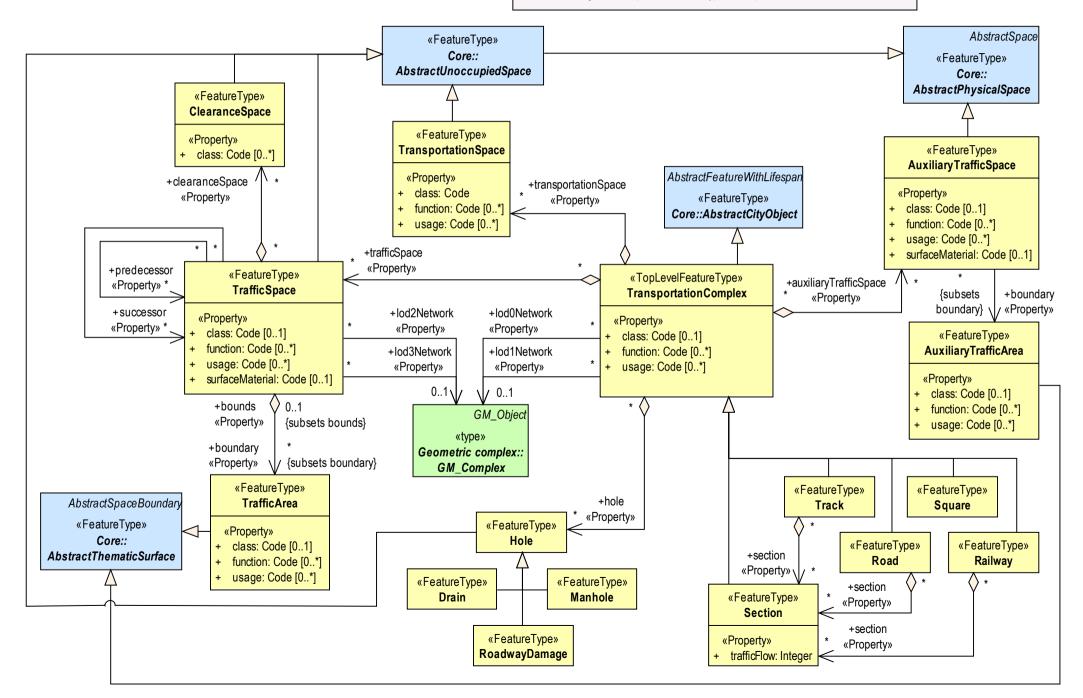


old

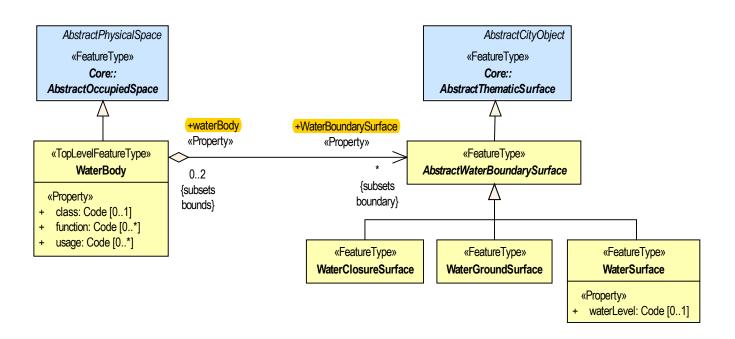
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WaterBody module



OldWaterBody module

