

BUILDINGS AND ADDRESSES

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Identifier management in INSPIRE

Every spatial object has a non-voidable inspireId (GCM, ch. 14):

- Identifier of the object, not of the real-world phenomenon
- Unique, persistent, traceable and feasible:
 - none are alike:
 - *namespace owned by data provider*
 - *a local identifier assigned by data provider*
 - never changes in the object's lifetime and therefore meaningless
 - key to finding object details
 - mapped to national identifier
- Does not include the version identifier

INSPIRE AD Scope and Description

An identification of the fixed **location of a property**, e.g. plot of land, building, part of building, way of access or other construction, by means of a structured composition of geographic names and identifiers.

additional objects have an address, such as street furniture, water pumping stations, mooring places, car parks and agricultural barns.

objects which can have addresses are **referred to as addressable objects**.

The data specification is concerned with the structure of an address and **does not attempt to define the structure of the addressable object** to which it relates.

The data specification does though include **associations** from the address to the two INSPIRE themes **Cadastral Parcels** and **Buildings**.

Addressing as per INSPIRE AD

INSPIRE will let you assign an address to every geographical location.

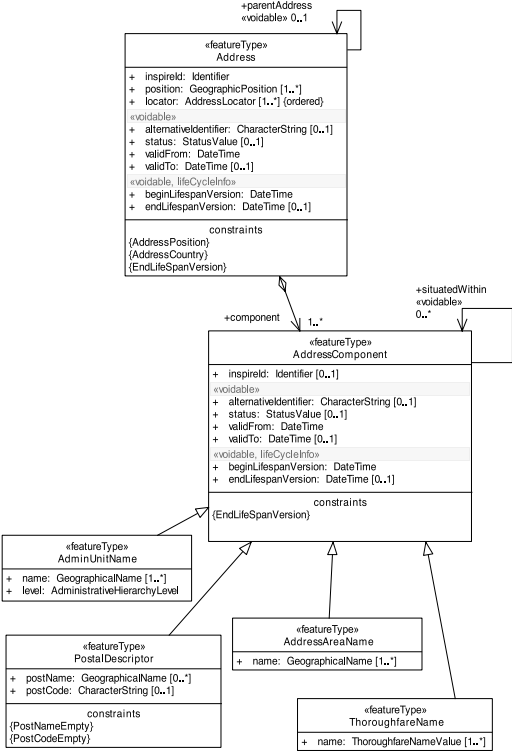
NL exchanges: (2012)

- Address: Identifier, validFrom, validTo, GeographicalName, GeographicPosition
- AddressArea: Identifier, GeographicalName
- ThoroughfareName: Identifier, GeographicalName
- PostalArea: Identifier

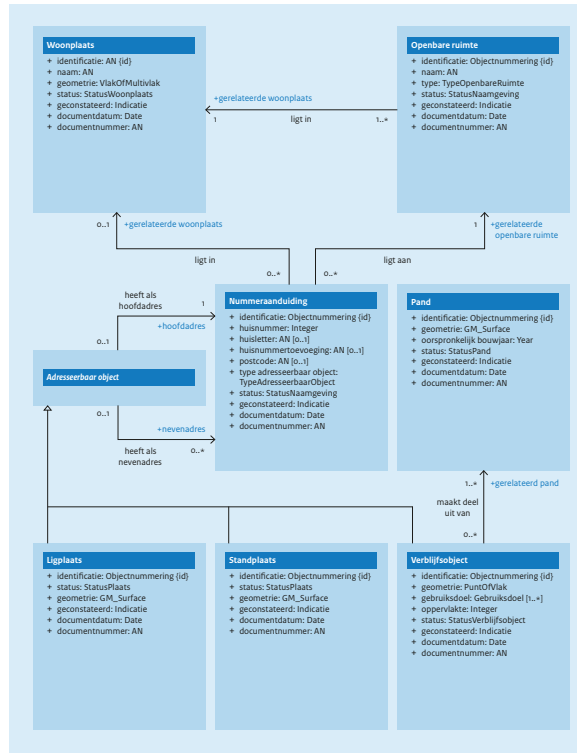
Mapping BAG to INSPIRE AD (2012)

- GeographicalName: *woonplaatsnaam, openbareruimtenaam, huisletter, huisnummer, huisnummertoevoeging*
- GeographicPosition: *geometry of verblijfsobject*
- PostalArea Identifier: *postcode*
- Address Identifier: *identifier of nummeraanduiding*
- AddressArea Identifier: *gerelateerde woonplaats*
- ThoroughfareName Identifier: *gerelateerde openbare ruimte*
- Address validFrom & validTo: *tijdvakgeldigheid of nummeraanduiding*

INSPIRE AD Application Schema



BAG Conceptual Model (2018)



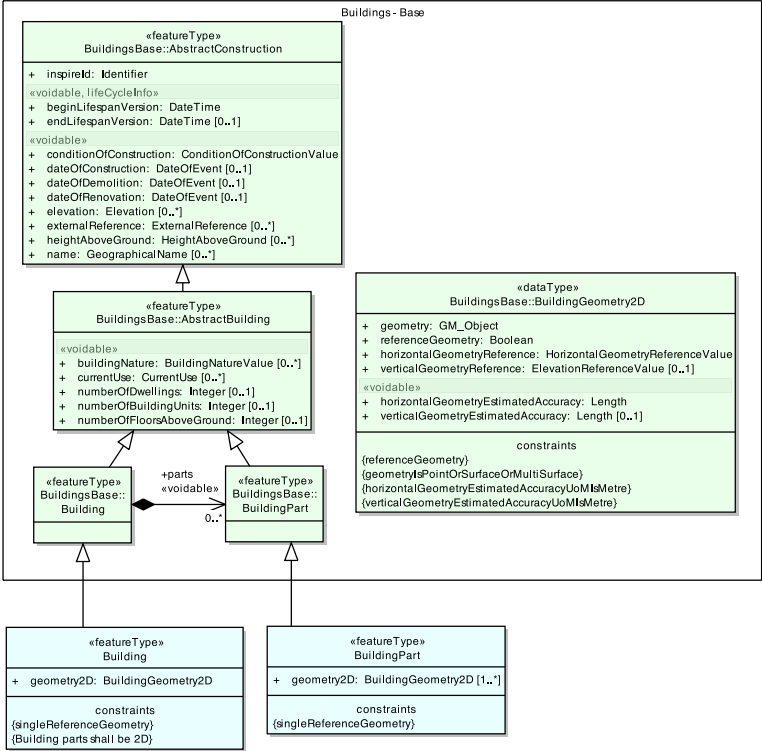
Representing the real world with discrete objects

- Buildings
- Building Parts
- Building Units
- Buildings partially without Building Units
- Buildings wholly without Building Units
- Building Units inside Building Units
- Single Building with single Building Unit
- Single Building with multiple Building Units
- Building Units that span across multiple Buildings after a reconstruction

Which objects require an address?

- Single building unit with multiple street doors
- Buildings with a name
- Streets without a name
- Non-dwellings, e.g.:
 - Built-in garages
 - Attached garages
 - Outbuildings
 - Utility buildings
 - Production facilities

INSPIRE BU 2D Application Schema



Mapping NL to INSPIRE BU Core (2011)

- Building: *pand, gebouw*
- BuildingUnit: *verblijfsobject*
- currentUse: *gebruiksdoel* (but agriculture not available)
- Dwelling: *verblijfsobject* with *gebruiksdoel=wonen*
- externalReference: *identificatie*
- HorizontalGeometryReference: *envelope, footprint, pointInsideBuilding*
- BuildingPart, elevation, heightAboveGround, numberOfFloorsAboveGround: not available

Mapping NL to INSPIRE BU Extended (2011)

- geometry (OtherConstruction): point, line, surface
- officialArea: *gebruiksoppervlakte*
- officialValue: *waarde*
- OtherConstruction: *kunstwerkdeel, overig bouwwerk, scheiding, inrichtingselement, spoorbaandee, waterdeel, wegdeel*
- specificInterest: *type inrichtingselement*
- energyPerformance: not available

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