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CityGML and GML

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Urban Information Modelling with CityGML





Application independent Geospatial Information Model for semantic 3D city and landscape models

- comprises different thematic areas
 (buildings, vegetation, water, terrain, traffic etc.)
- data model (UML) according to ISO 191xx standard family
- exchange format results from rule-based mapping of the UML diagrams to a GML3 application schema
- ► Adopted OGC standard since 08/2008

City**GML**

CityGML represents

- ▶ 3D geometry, 3D topology, semantics and appearance
- ▶ in 5 discrete scales (Levels of Detail, LOD)

Modular Structure of CityGML



Department of Geoinformation Science

Application Domain Extensions (ADE)

Generics

Appearance

Building

SityFurniture

CityObjectGroup

LandUse

ransportation

Vegetation WaterBody

Tunnel Bridge

CityGML Core

Relief

OGC GML 3.1.1



