Indoor Location

draft-thomson-geopriv-indoor-location-00

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Problem

• Express location in a way that has greater local significance
• Express location with greater accuracy within the local domain
Design Principles

• Establish a reference location (geo-reference)
  – Geodetic (WGS84) mandatory
  – Civic is optional

• Allow the information to be used outside of the local domain
  – Provide a transformation to WGS84
  – Recommend that a WGS84 version is also provided, first

• (Optionally) attach coordinates to an image
  – Large number of use cases rely on maps for creation, management and display of data
  – Allow for scaling and rotation to suit local needs

• Decouple indoor coordinate specification from definition of reference point
Reuse existing tools

• The reference point establishes an origin for a new coordinate reference system (CRS)
• GML definition for a custom CRS
  – Use valid GML
  – Allow for flexibility
  – Be precise
• Costs of using GML are incurred by the specification, not the implementation
  – Templates make this easy to use
What does it look like?
TODO

• Open comments:
  – Use of image CRS rather than engineering CRS goes too far
  – Cartesian-ness of coordinate transformation
• The document lacks a worked example
• Sample implementation is needed
• No ASCII-art