RO-Online implementation deegreeday 2008
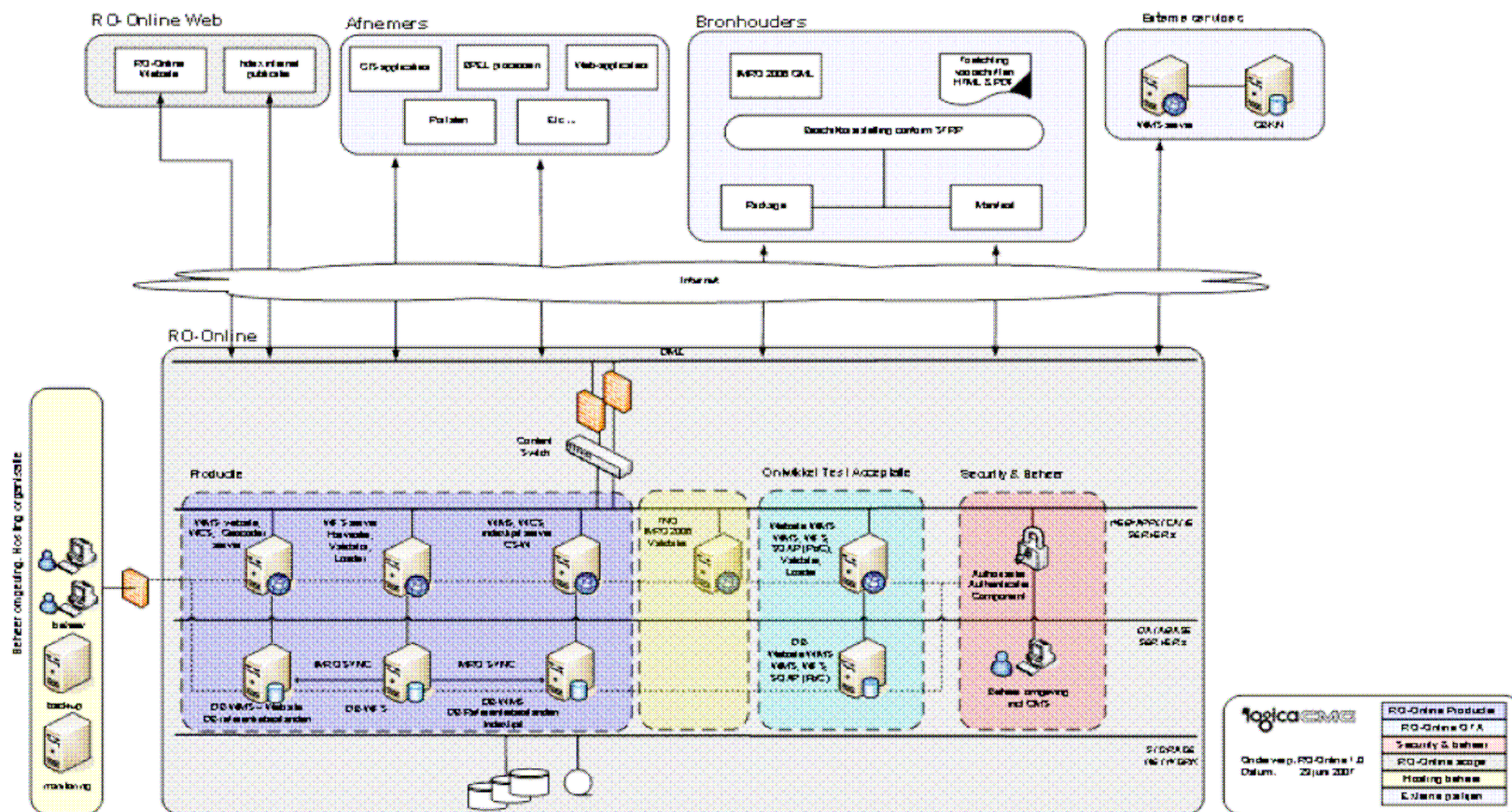
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Agenda

1. Architecture of RO-Online
2. Loading complex IMRO-GML using WFS-T
3. Viewing with Flamingo
4. Public WMS&WFS services
5. Viewing aerial image

Technical structure RO-Online

Loading IMRO-GML using WFS-T

1. **Illustration of complexity**
   - Complex features: features in features
   - Multi value properties
   - Optional properties

2. **Use WFS-T**
   - Automatic generation of DB schema and WFS configuration using the XMLSchema
   - Insert of gml of plan in single transaction

Viewing with Flamingo

1. Introduction to Flamingo

2. Handling complex GetFeatureInfo response using the Objects-in-Objects construct of Flash

3. Filtering WMS layers using SLD-parameter of GetMap request

4. Dynamic legend using WFS to query objects in current view extent

Public WMS & WFS

1. Simplification in WMS

    - Layer per featuretype with selection of properties:
      Enkelbestemming, Dubbelbestemming, Bouwvlak, Aanduiding, etc

2. Simplification of WFS 1.0: Tables 1-to-1 mapped on featuretypes

    - Multiple queries needed to retrieve a plan or planobject
    - No featuretype available, suitable for drawing

Support for detailed aerial images

- 3500 tiles of 8000*8000 0.5 m pixels, 190 MB each;

- Split into tiles of 500*500 pixels;

- Converted to jpeg, reduced to 10%

- Rastertree build for every tile (0.5 , 1.0 2.0, 4.0, 8.0 m resolution)

- Index of all rastertreesloaded in PostGIS