

A white five-pointed star with a long tail pointing towards the top-left corner of the slide.

A practical guide to joining EuroGeoNames

Joergen Spradau (BKG)

A large, abstract graphic at the bottom of the slide depicting a network of glowing blue lines and nodes, resembling a globe or a complex web structure.

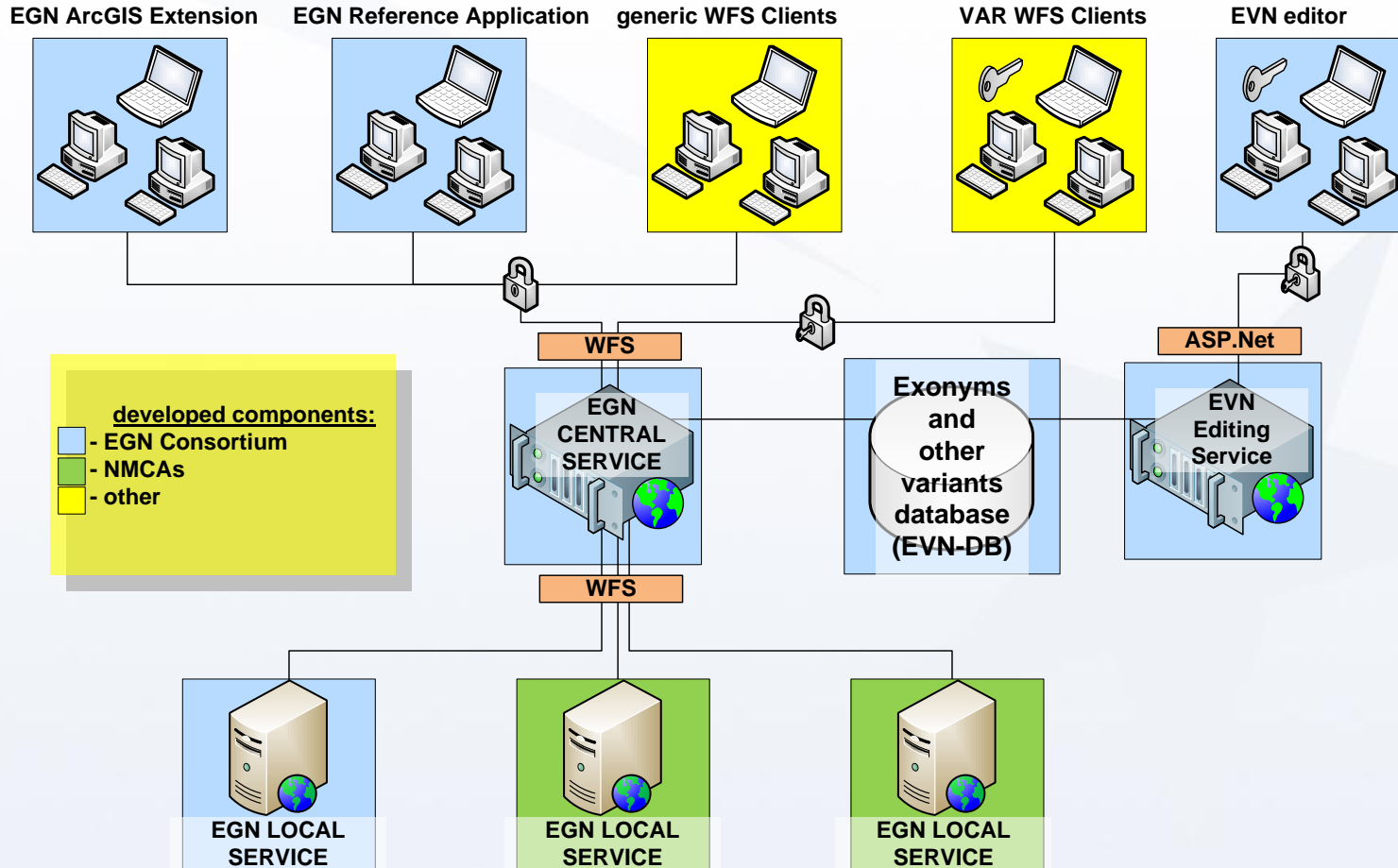
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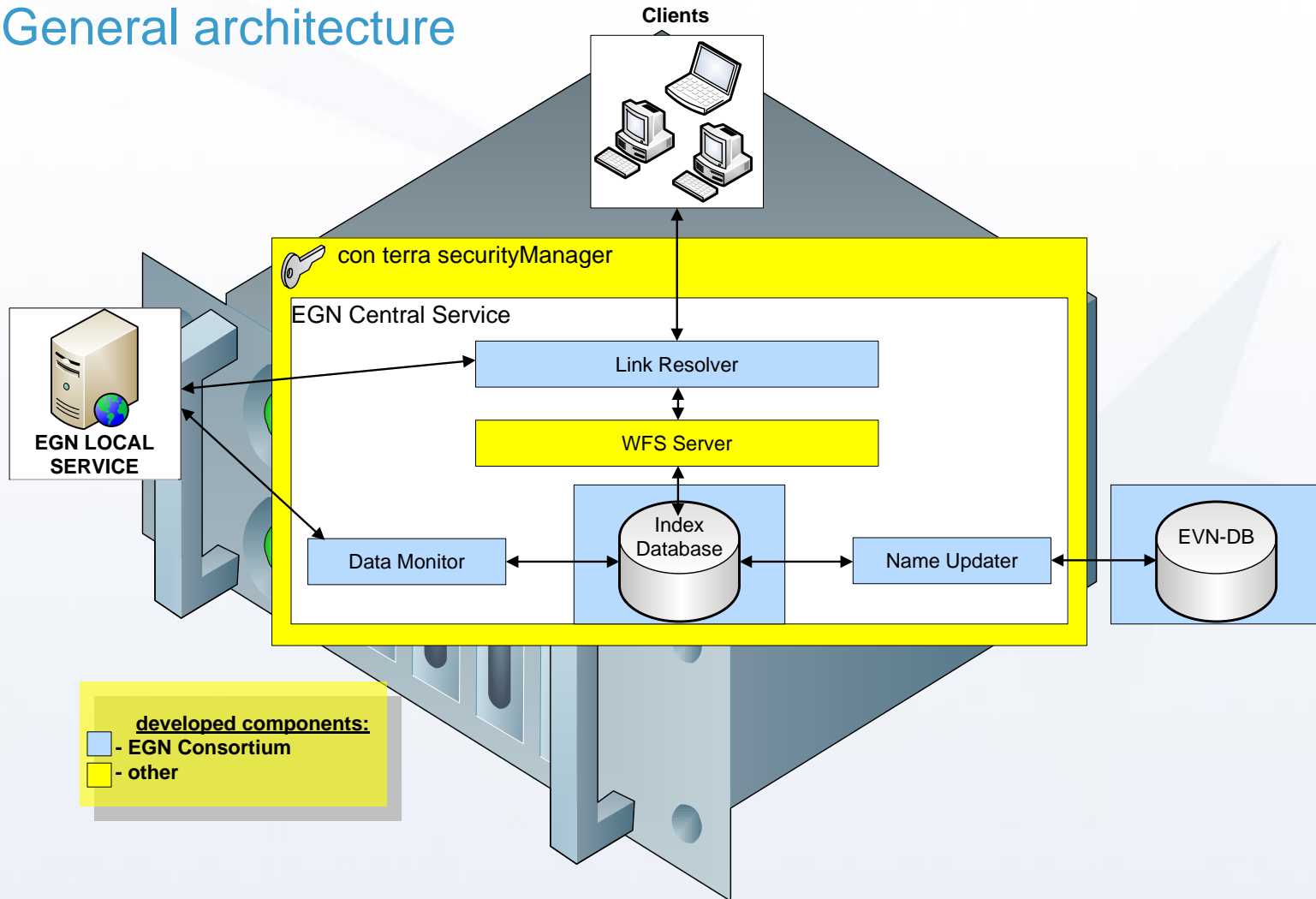
Motivation

- *Complex Data Model holds detailed data for geographical name experts*
- *Complex Data Model holds all necessary elements for INSPIRE*
 - **A new development of a WFS interface can be implemented for INSPIRE and ESDIN**
 - **Countries do not have to develop their own INSPIRE service for geographical names**

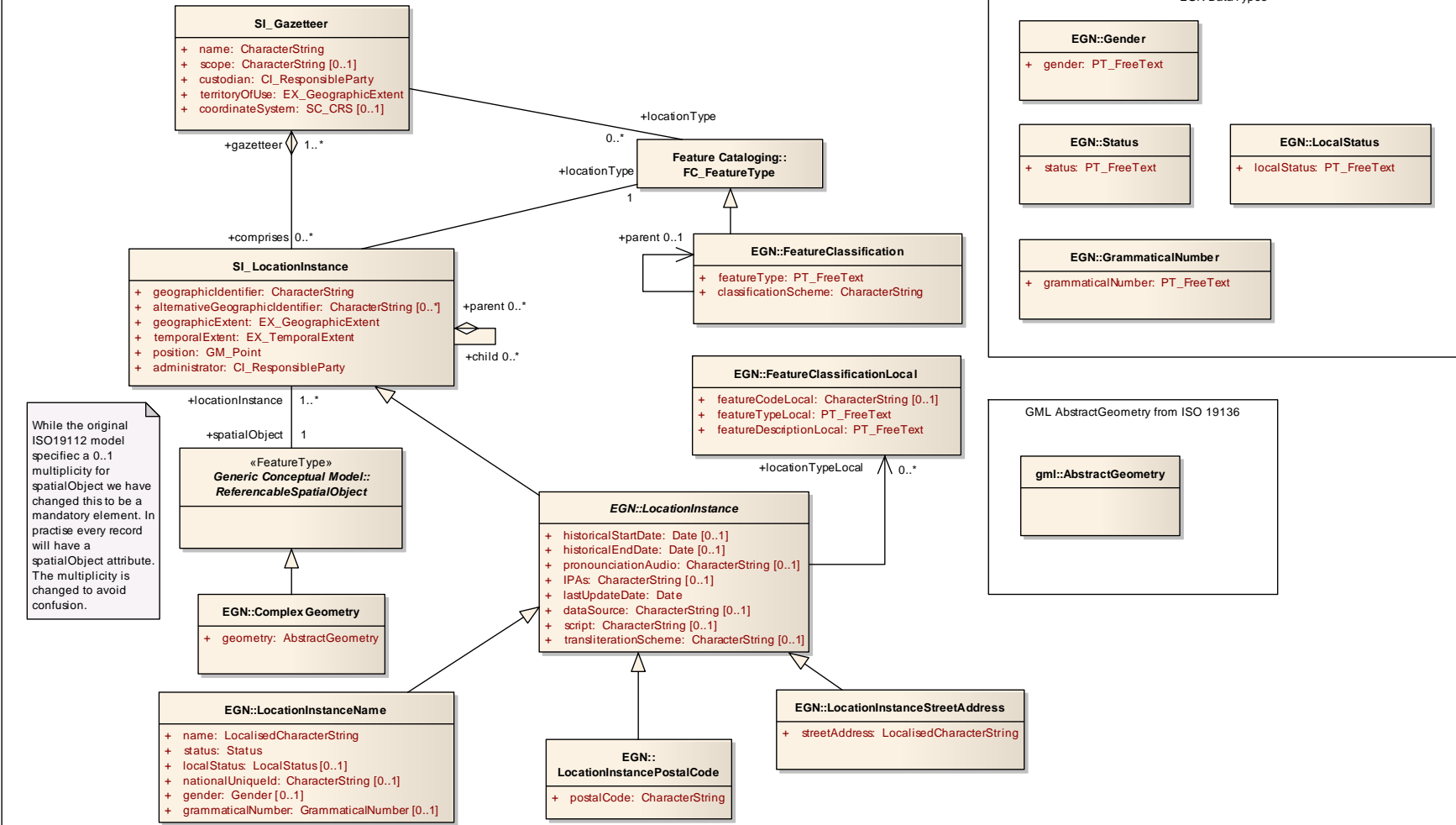
Main infrastructure



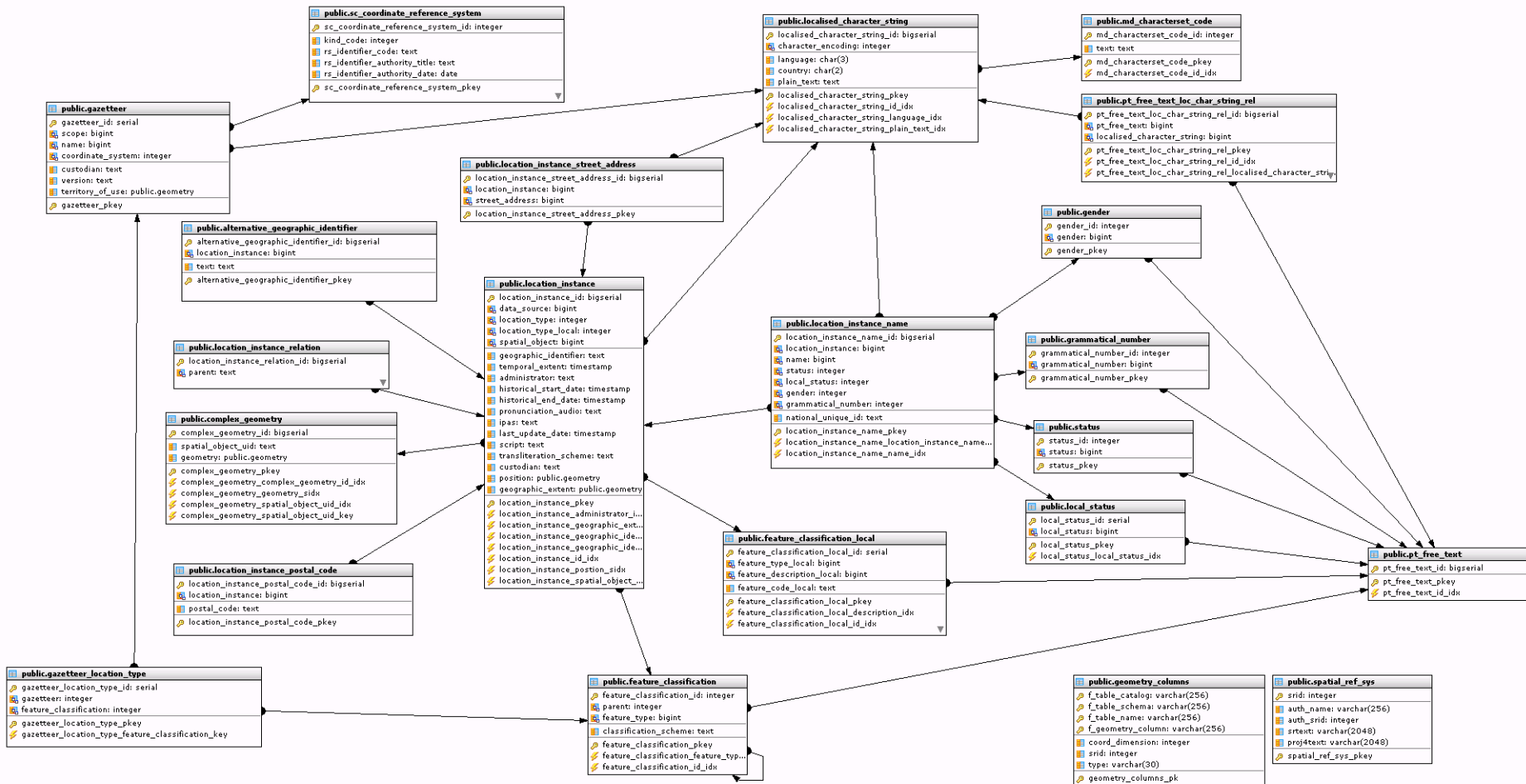
General architecture



Data model



Database overview schema



Step one: Preparations

- consider your local environment /technical infrastructure upon the requirements based on the development of the EGN Consortium
 - hardware should have enough resources for complex calculations (e.g. min XEON CPU 2.4GHz, 2 GB RAM, 100 GB HDD, Windows Server 2003)
 - requiered software
 - JAVA VM
 - Apachee webserver (incl. Tomcat server)
 - PostgreSQL database (incl. PostGIS extension)
 - Deegree WFS
- Download the EGN Local Service setup files from <ftp://www.eurogeonames.com> (User and Password: „egn_owner“)
 - includes installation and configuration instructions

Step two: choose of the dataset

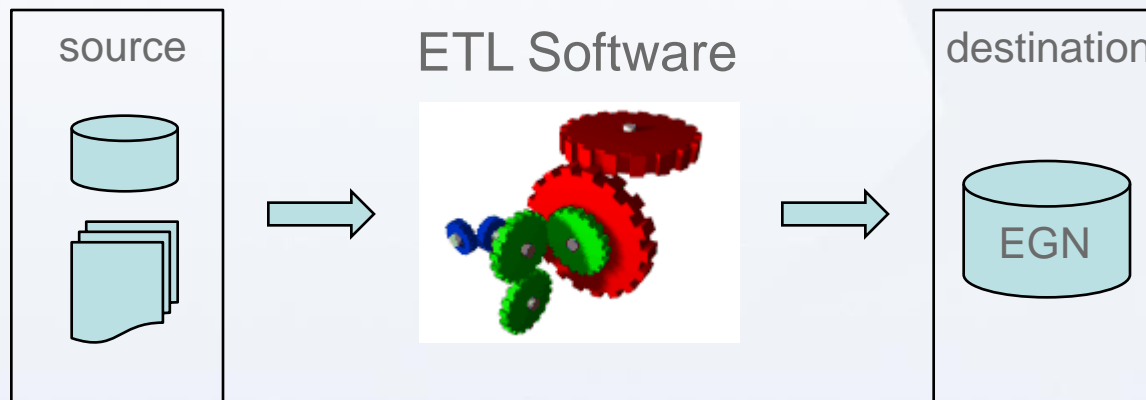
- Comparing mandatory attributes of EGN with your local datasets
 - Best case: a geographical name with all the relevant attributes
 - Example of mandatory attributes (complete list on <ftp://www.eurogeonames.com>)
 - geographical name
 - language
 - position (point coordinates)
 - feature classification
 - missing mandatory bounding boxes in your dataset
 - solution: create a virtual bounding box e.g. 1km x 1km

Step three: data model mapping

- Building a mapping table with all elements of EGN
 - EGN Data Model d4.2e
 - [Data model](#)
 - general example on <ftp://www.eurogeonames.com>
 - database overview schema
 - [Database overview schema](#)
 - example on <ftp://www.eurogeonames.com>

Step four: transformation

- Based on the mapping tables the source should be transformed to the EGN destination format
 - Tools for the transformation (Extract Transform Load Software)
 - Feature Manipulating Engine – FME
 - ESRI ArcGIS Interoperability Module





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