

# Germany

## Aligning German reference data with INSPIRE Annex I data themes

A transformation specification to align reference data with INSPIRE Annex I data themes has been created by the surveying authorities of the Laender of the Federal Republic of Germany (AdV).

Under the INSPIRE Directive, the German cadastral and mapping administrations have to provide INSPIRE compliant data sets which are usually transformed from the original source data. Whereas the source and target models are well defined, there was a strong need for a clear description of mapping rules to transform the source data in a harmonised way.

AdV has created a complete, formal and executable data transformation specification to transform authoritative data to INSPIRE Annex I data sets.

The transformation rules are defined by the HUMBOLDT Alignment Editor (HALE) Alignments, which can be directly executed or easily transformed to other schema transformation tools. HALE Alignments are used as a formal description of the transformation rules. These are much more precise than the Excel sheets which were previously used. The transformation rules are interactively documented and published at [www.adv-online.de](http://www.adv-online.de). For each source object the target object is defined, accompanied by a human readable and executable transportation rule (HALE Alignment).

The screenshot displays the HALE Alignment Editor interface. On the left, a navigation menu includes 'Overview', 'Mapping', 'Files 80', 'History', 'Discussion', 'Tasks', 'Notes', and a red 'Delete' button. The main area shows a transformation rule titled 'AX\_Wasserlauf and AX\_Gewaesserachse (CQL-funktion <-> '8300') to WatercourseLink'. A diagram illustrates the transformation: two source objects, 'AX\_Wasserlauf' and 'AX\_Gewaesserachse (CQL...', are connected to a central 'Join' node. This node is then connected to the target object 'WatercourseLink'. Below the diagram, the 'Target property' section for 'WatercourseLink' is detailed, including its definition, description, and examples of fictitious network segments.

**Target property**

**WatercourseLink**

- Definition - A segment of a watercourse within a hydrographic network.
- Description - NOTE A watercourse link may be fictitious, with no direct correspondence to a real-world object and included only to ensure a closed network.

*typeDescription*

EXAMPLE Fictitious examples:

- virtual network segment in coastal water area
- virtual network segment in lake area
- virtual network segment in river to connect tributary
- virtual network segment in transitional water area

At the bottom, there are tabs for 'Description', 'Discussion 0', 'Tasks 0', and 'Notes 0', along with a trash icon.