

Title: Dynamic layer structure and symbology for spatial plans using deegree 3 components

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For many plan types in IMRO, the Dutch standard for spatial plans, there is no standard defined for symbolization of plan objects. In printed format these plans have nice paper maps attached, but because the symbology is not transferable in the standard gml these plans are shown in gray in the national portal for spatial plans, named RO-Online (www.ruimtelijkeplannen.nl).

Standardization of symbology involves semantic and syntactical standardization. Because semantical standardization, namely giving the same meaning to certain policies in all plans, is hard to accomplish, the project team has chosen to only standardize a list of symbols. Plan objects are coded with a symbol from a pre-defined list. Furthermore, these plans have a complicated structure between plan objects which results in a different layer structure for every map in a plan. deegree 3 components have been used to develop a "dynamic" WMS. This WMS is dynamic in the sense that WMS layer structure is derived at run-time through analysis of the relation between plan objects. The standardized list of symbols is defined using SLD properties. Every symbol has a code. This code is assigned to the plan object and used at run-time to give the object the correct symbology.

During the presentation the problems and solutions will be discussed in more detail. A demonstration of the results will be given using RO-Online and the tool for maintaining symbol properties will be presented.