

International Standardization in GIS - from the Abstract Model to the Applying Level

Yana Lipiyska, Maria Angelova(BG)

SUMMARY

Standardization in GIS is necessary at all stages - from the so-called conceptual level, through the realization of the processes of the exchange the data and connection with other systems. The problem of data exchange requires a comprehensive solution, one of which is standardization of the transfer of geospatial information in order to make geographic information accessible so that it can be used by a wide range of users. The problem also affects the Bulgarian Spatial Data Infrastructure in terms of harmonization of miscellaneous data. Whereas, standards have an abstract structure and their application requires in-depth understanding and analysis. This report indicates the practical approach of the ISO 19 100 Model Driven Architecture (MDA) series of geoinformation standards for modelling, with highlights to XML / GML, WFS etc. As a final result is the transformation of the abstract application schema specification into an XML-based specification that can be used directly in WFS.

KEY WORDS: GEOINFORMATION SYSTEMS, STANDARDS, INTEROPERABILITY, XML / GML

AUTHORS:

д-р инж. Яна Липийска

Геодетект ЕООД/УАСГ

Адрес за контакт: гр. София, ул. Ген. Стефан Тошев 78, вх. А, ет. 1, ап. 37

Телефон: +359 888 493 033

e-mail: yana.angelova@geodetect.bg

инж. Мария Ангелова

УАСГ, Геодезически факултет

Адрес за контакт: гр. София, ул. Ген. Стефан Тошев 78, вх. А, ет. 1, ап. 37

Телефон: +359 885 985 855

e-mail: maria.angelova@geodetect.bg