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RBIS - An Environmental Information System

F. Zander and S. Kralisch

Department of Geoinformatics, Hydrology and Modelling, School of Chemical and Earth Sciences,
Friedrich-Schiller-University, Jena, Germany

The River Basin Information System (RBIS) developed at the Department of Geoinformatics at the Friedrich Schiller University of Jena provides a modular structured and web-based platform for environmental data management and data sharing (http://www.rbis.uni-jena.de). The system is used in several multidisciplinary research projects and provides user-friendly functions for the management, analysis, visualization and presentation of different types of data. These types of data include time series data (e.g. hydrological, climatologically ...), geo-data, documents and more domain specific modules for example related to soil, vegetation, scenarios, simulation models or indicators. One main focus lies on the maintenance on meta-data to make sure information about data provenance and responsible parties are preserved. Furthermore the fine grained user and permission management of RBIS take care about the access and manipulation rights of all stored data. For an easy data exchange of time series data and other data types RBIS provides several interfaces. One example is a prototypical implementation using OGC standards (Sensor Observation Service (SOS) and WaterML2.0). Since RBIS is used for data in research regions located in different countries (e.g. Brazil, Vietnam, Angola, Chile, Germany) a Multilanguage support was added to address not only research project partners but also local stakeholder and public.
We will present the structure, modules, main functions, permission management and interfaces for data exchange of RBIS together with selected examples of RBIS instances.