

# Serbian Profile of the Land Administration Domain Model

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## SUMMARY

Since the data of cadastral records are of great importance for the economic development of the country, they must be well structured and organized. Cadastral records in Serbia met numerous problems in past several years. In order to avoid problems and to achieve efficient access, sharing and exchange of cadastral data on the principles of interoperability, it is necessary to create a model of the domain according to current standards and recommendations in the field of spatial data. This paper describes a domain model for cadastral records in Serbia based on the international standard ISO 19152. Existing model of cadastral records, national legislation and the possibility of applying ISO 19152 have been analyzed. This study resulted in an extended domain model for Serbia based on the Land Administration Domain Model (LADM). A profile for the Serbian cadastre has also been proposed. Based on the resulting profile, it is shown that ISO 19152 is applicable in the Serbian cadastre. The paper also describes the method for translation from the existing data model for Serbian cadastre into a new standard based data model, and also describes its benefits. For efficient exchange of cadastral data and executing processes in the cadastre, on top of defined standardized data model, it is necessary to develop a model of services that must be provided by the institutions interested in the exchange. This can be achieved by introducing a service-oriented architecture in the real estate cadastre information system, which is the next step in improving the cadastre in Serbia.