TEST BED FOR GEOSERVICES ON THE OSB

Atos Origin GIS Competence Centre

Atos Origin has a wide experience in service oriented architectures in the field of geo. Already in 2006 first steps were taken when the first national portal was created for the Institut Géographique National (IGN). A second important step was the implementation of a Service Oriented Architecture for Risk Management within the EU – Orchestra. Both projects have in common to standardize and facilitate the data exchange between organizations. Atos Origin uses this international knowledge and experience in different cases and in countries where this expertise is asked for.

As a large international company Atos Origin aims to bring expertise together in order to get the best possible solution for its customers. For its GIS- and geo-expertise Atos Origin The Netherlands B.V. has a Geo Competence Center consisting of 45 professionals. Worldwide the number of people in this field is about 250 experts. The Dutch Geo Competence Center cooperates closely with the colleagues from other countries, like France and Spain. The knowledge gathered in projects is used actively in other cases like the one described in this report. By doing this, other customers can benefit from the lessons learned.

We would like to thank Geonovum, ICTU and Logius for offering us the possibility to expand our knowledge in the field of geo-services in the public sector. We are also grateful to those who reviewed this report. It was a good cooperation with very fruitful discussions. Without our project team we would never have come to these conclusions; all did a great job. We also like to thank our French and Spanish Atos Origin colleagues for the support they offered during the startup phase and the project. Last but not least we would like to thank Albert Seubers (Sourcing Director Public Sector) and John Breedijk (Market Director Public Services) for their support to put our ideas into practice.

The Atos Origin Geo Competence Center team

1. INTRODUCTION

This report contains the results of a project named 'Testbed geo-services op de OSB (Overheids¬servicebus) en register' (i.e. test bed for geoservices on the OSB (Dutch Governmental service bus) and register). Note that the OSB is a set of standards, not a physical service bus, as the name could suggest[1] . The OSB profile concerned is 'WUS' (WSDL, UDDI, SOAP), version 1.1 (OSB 2008-a). The ultimate aim for this project is the embedding of geo-services in the Dutch 'e government'.

During the project a test bed was developed to investigate, if two important geo-services, Web Map Service (WMS) and Web Feature Service (WFS), can be invoked according to the OSB standards.

At first, the scope of the project is described in more detail (chapter 2). Chapter 3 contains some background information on the OSB, the Dutch key registers and the geostandards that apply to the project.

Chapter 4 describes the preparations that were carried out in order to be able to specify and run the tests. The test bed architecture and the way the test bed was implemented is described. The chapter also contains a discussion on SOAP/WSDL in the context of geo-services.

The test results, including a large number of listings, are presented in chapter 5. The research questions are answered in chapter 6. In Chapter 7 the conclusions and recommendations are given. Chapter 8 contains a list of references. The report concludes with a number of appendices.

Initiators of the project were Geonovum and ICTU (the ICT department of the Dutch Government). The project was carried out by Atos Origin in the period October 2009 – January 2010 with the support of both Geonovum and ICTU.

[1]Also note that the name 'OSB' is in the process of being replaced by 'Digikoppeling'.