

DELIVERABLE D2: LIST OF COMMON SCHEMAS

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Deliverable type: DOCUMENT

Version	Date	Author	Description
0.1	30-5-2013	Jur Leinenga	Scheepstypen added
0.2	15-11-2013	Jur Leinenga	Other vocs added
0.3	26-03-2014	Victor de Boer	First version of document

This deliverable describes a list of common schemas and vocabularies. Common vocabularies and schemata were identified in a collaboration between the technology provider and the user.

COMMON SCHEMAS AND VOCABULARIES

Common vocabularies provide anchor points for other datasets to link to. We focus on Ship information, people information and places. We distinguish two types of vocabularies. General purpose vocabularies and DSS-specific ones.

GENERAL PURPOSE VOCABULARIES

These are vocabularies that can be linked to from DSS but also from other datasources. In this case, we identified vocabularies available in the Web of Data only. This resulted in a number of vocabularies/datasets to reused in the project:

- Geonames.org¹ for places. Although Geonames does not provide historical place information, it still is a very usable source of information, providing lat/long coordinates, hierarchical information and place names in other languages. It is a much linked-to datasource on the Web of Data, thereby increasing the reusability of the DSS data.
- Art and Architecture Thesaurus² for ship types and ranks. The AAT has Dutch labels making it possible to semi-automatically link DSS ranks and ship types to AAT.
- DBPedia³: This dataset provides general purpose terms. We use it to link places, ranks and shiptypes

DSS SPECIFIC VOCABULARIES

We provided DSS-specific lists of ranks and shiptypes mainly consolidated from the Monsterrollen DB and Generale Zeemonsterrollen VOC, with mappings between them. These were also related to the VOC Glossarium⁴.

¹<http://www.geonames.org>

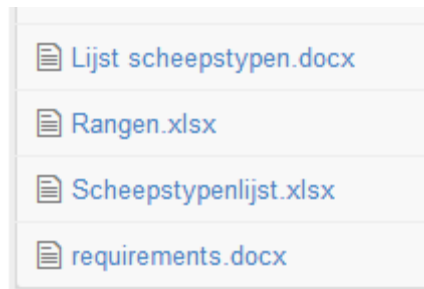
²<http://aat-ned.nl>

³<http://dbpedia.org>

⁴resources.huygens.knaw.nl/vocglossarium

The original documents are available online at <https://github.com/biktorr/dss/tree/master/sources>. (see also figure 1)

FIG 1: LIST OF COMMON DSS VOCS IN ORIGINAL FORM AVAILABLE ONLINE



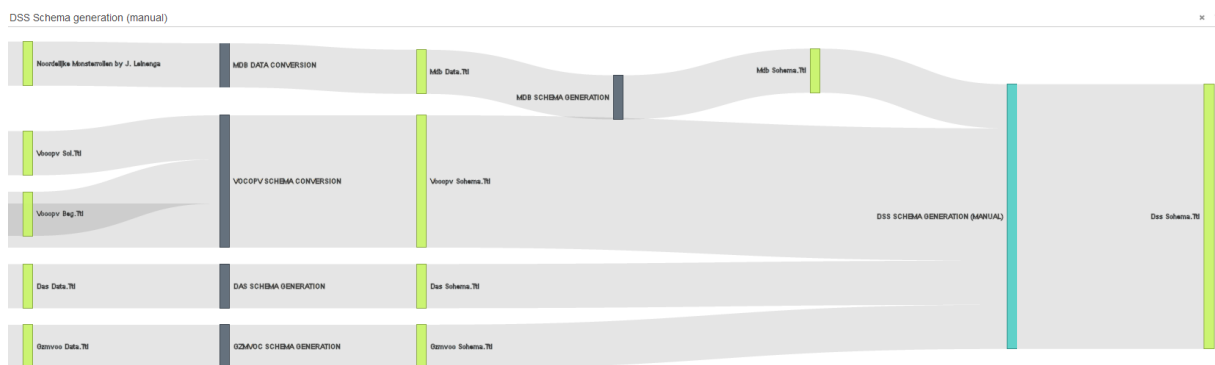
The DSS-specific vocabularies were consolidated to RDF and are part of the Semantic Server. (see Deliverable *DSS_D5*)

COMMON SCHEMAS

To allow for specificity as well as interoperability, we use individual schemas for each of the datasets. These are consolidated from the datasets themselves (see fig 2). Common elements from individual schemas are then mapped to a common DSS schema which is then mapped to often used schemas. This ensures interoperability on the DSS level as well as some interoperability at the more general linked-data level (see also ⁵). We link to the following external schemas:

- SKOS⁶ to describe concept schemes (ranks, shiptypes,...)
- FOAF⁷ to describe person information (name, firstname,...)
- DCTerms⁸ to describe record information (description, identifier, ...)

FIG 2: PROVENANCE OF THE SCHEMA



⁵ Victor de Boer, Jan Wielemaker, Judith van Gent, Michiel Hildebrand, Antoine Isaac, Jacco van Ossenbruggen, Guus Schreiber. Supporting Linked Data Production for Cultural Heritage institutes: The Amsterdam Museum Case Study. In: Proceedings of the 9th Extended Semantic Web Conference (ESWC 2012) Heraklion, Greece. May 27 – 31

⁶ <http://www.w3.org/2004/02/skos/>

⁷ <http://xmlns.com/foaf/0.1/>

⁸ <http://dublincore.org/documents/dcmi-terms/>