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.org\(^1\) 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 Thesaurus\(^2\) for ship types and ranks. The AAT has Dutch labels making it possible to semi-automatically link DSS ranks and ship types to AAT.
- DBPedia\(^3\): 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 Glossarium\(^4\).

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\(^1\)http://www.geonames.org  
\(^2\)http://aat-ned.nl  
\(^3\)http://dbpedia.org  
\(^4\)resources.huygens.knaw.nl/vocglossarium
The original documents are available online at [https://github.com/biktorrr/dss/tree/master/sources](https://github.com/biktorrr/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:

- SKOS\(^6\) to describe concept schemes (ranks, shiptypes,...)
- FOAF\(^7\) to describe person information (name, firstname,....)
- DCTerms\(^8\) to describe record information (description, identifier, ...)

**FIG 2: PROVENANCE OF THE SCHEMA**

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6 [http://www.w3.org/2004/02/skos/](http://www.w3.org/2004/02/skos/)

7 [http://xmlns.com/foaf/0.1/](http://xmlns.com/foaf/0.1/)