

## BALTCOM Datawarehouse – Online data mining using MS Analysis services

T. Jansen and H. Degel

Danish Institute for Fisheries Research  
Jægersborgvej 64-66, 2800 Lyngby, Denmark

E-mail: tej@dfu.min.dk

BALTCOM version 2.0 is an internet based datawarehouse (URL: <http://www.BaltCom.org>) where the countries represented in IBSFC (International Baltic Sea Fishery Commission) upload, download, validate and analyse discard data.

The development of the international datawarehouse was an EC funded project.

In the process of assessing stocks of commercially fished species in the Baltic Sea [mainly: Cod (*Gadus morhua*), Herring (*Clupea harengus*), Sprat (*Sprattus sprattus*) and Flounder (*Platichthys flesus*)] data needs to be aggregated and calculated to match the input formats required to run assessment software used in the Baltic Fisheries Assessment Working Group.

The need for a fast performing web based data mining application to analyse these formats on different aggregation levels was addressed by implementing a solution using Microsoft Analysis Server and Microsoft Excel Pivot Table Services.

The functionality of the solution is presented through use cases. Architecture and calculations are documented.

The selection of technology is discussed.

Recommendations are given on the basis of lessons learned during development and implementation.