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## Report from the SNPWG Pilotage product specification sub-group

### First attempt at modeling

Following SNPWG 10 the idea we followed was to model a few ports around the world to gain experience on what is required for pilotage and to get a better idea of the steps involved in writing the product specification. Therefore we attempted to model pilotage at 4 major ports around the world in an attempt to understand the differences in the local sailing directions and how the SNPWG 10 model could handle these. The result was that about 80% of the text remained in prose and the feedback from the SNPWG members was that we should try to make the pilotage model use more discrete data that the ECDIS can interpret.

### Second attempt at modeling

Motivated by the feedback, a generic example incorporating major features from the 4 major ports previously attempted was created. This generic example was then modeled using the SNPWG 10 model plus enhancements that we added where the SNPWG 10 model failed. These enhancements were submitted to the SNPWG Wiki as proposals. This along with making some assumptions about how an S-100 ECDIS will work, like having spatial analysis functions, allowed the generic model to be much more successful. However, the feedback was now split between those like the idea of ECDIS with sailing directions being a decision support tool and those who think sailing directions are too complex and should remain as text for the mariner to read. To give an idea of the amount of change from the SNPWG 10 model, the second mapping resulted in no new objects and seven revised or new attributes.



## Writing the first draft product specification

With the mixed feedback in mind, we moved on with drafting the product specification. We used S-100, the TSMAD 18 S-101 draft and other product specifications as guides. A number of problems were encountered, such as ambiguous guidance on how to make the feature catalogue, the duplication of material in the suggested structure of product specifications between feature catalogues and context tables, as well as general feeling that S-100 does not accommodate nautical publications in a significant manner. Furthermore, we found it necessary to expand the scope diagram for our own understanding, and to reduce the application schema diagram to just show classes and relations between them in order to produce a compact and legible diagram, as well as adding a summary of types table to enhance the readability. We decided to not try to tackle items of data delivery and packaging due to our uncertainty on how nautical publications will work in ECDIS.

## Presentation

To provide more details on the work done so far, as well as better highlighting the challenges encountered with regards to S-100, a presentation accompanies this report.

## Conclusion

The first draft of the Pilotage product specification has been distributed to the subgroup and we recommend that SNPWG endorse the work done, as well as approving that the subgroup continue to work on the document with the goal of finalizing it.

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