

New Chart Production System at the Swedish Hydrographic Office

Summary

The situation regarding the necessary need for renewal of the system for chart production at the Swedish HO was mentioned at the last BSHC meeting in Saint Petersburg.

This paper describes the present status (August 2016) of our project “New CHAMPS¹” and outlines the coming most important steps and activities in the project plan.

Procurement

- A requirements specification was produced 2014-2015 and finalised in April 2015. A public open procurement was prepared and the request for proposals was announced in May 2015. Response time was prolonged over July and closing date for tenders was early August 2015.
- We received two tenders from Caris and Esri respectively. The tenders were evaluated from August to early October and the evaluation period included a specified two day presentation /demonstration for invited tenderers (both in this case).
- In October the Caris proposal was selected after a very tight race. Contract was signed in early November.

Preparations - completed

From November 2015 the project activities have been intense and sometimes in parallel and at times stressing the available resources within the office.

- November 2015. Startup meeting with the SMA project team and Caris project team.
- November 2015. Installation of test/sandbox environment.
- November-December 2015. Initial training for SMA project and pilot team.
- December 2015 – February 2016. A pilot test period has been completed. The aim has been to increase our internal knowledge of Caris HPD and to evaluate the most important use cases.
- February 2016. Discussions with Caris about a Design Specification describing how to develop a new version of Caris HPD to meet about 40 requirements from SHO.
- December 2015-March 2016. Completed a pre-study to suggest a migration strategy for cartographic information. It has been concluded that the migration of data for ENC production is straightforward; we have a standard. But for cartographic products it is

¹ CHAMPS. CHArt Management and Production System

another story. Our old present system and Caris HPD handles this in different ways and there is no specific standard for data transfer to use here.

- March 2016. Design specification approved. Cartographic pre-study evaluated and initial directions decided. We will attempt to develop an interface that enables transfer of large parts of the cartographic information. We also foresee that manual editing will be necessary to completely recreate our cartographic products.
- March 2016 – June 2016. Prepare all configurations in Caris HPD in close cooperation with the supplier.
- June 2016. Introductory training for all staff that will operate the system.

Preparations - ongoing and remaining

- January 2016 and onwards. Plan and execute internal and external communication activities. External and internal customers are informed about the project and especially the consequences for specific product categories, if there will be longer delivery times, standstills etc. We anticipate to continue this until “normal” operation is totally reestablished (2018).
- March 2016 – September 2016. Review and change all relevant processes and instructions in our quality management system. This is a high priority task and consumes considerable resources.
- August 2016. The complete system, with functionality to satisfy our requirements, will be delivered and installed.
- August 2016 – September 2016. System acceptance test (SAT) of delivered system. Hopefully approved without too much problems.
- September 2016 – October 2016. Comprehensive user training for all staff that will operate the system. The training will partly be assisted by our own expert users in order to link with processes and procedures in our quality management system.

Plan for commissioning

- September 30th 2016. All updating in present ”old”system stops.
- October 3rd – October 17th 2016. No updates performed. All ENC data migrated to HPD. Testing and quality assurance activities. All critical new navigational information communicated through navigational warnings.
- October 18th 2016. Limited production starts, important updates and first EN published in Caris HPD.
- November 4th 2016. Production start-up (PSU). “Full” speed in updates and publishing of ENCs (EN/ER).

The process of reestablishing all cartographic products such as paper charts, leisure craft charts, digital raster products and all other chart products and services starts immediately at PSU and in the current plan we have given ourselves two years to be completely on track again, i.e. end of 2018. The results of our cartographic pre-study indicate a possibility to revise plans in a positive direction and that most cartographic products are recreated during 2017.

Actions requested from the BSHC21

The BSHC21 is invited to note this report.

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