



NAUTICAL INFORMATION PROVISION WORKING GROUP

NIPWG Letter 1/2018

17 March 2018

DISCUSSION ON CONTRACTING NIPWG RELATED WORK

References:

- A. NIPWG 5 minutes draft (to be provided by the 23rd of March 2018)
- B. NIPWG 5-07.1
- C. IHO Council: C1/22

Dear colleagues,

This letter requests your consideration and feedback on the determination of potential NIPWG work to be sourced out.

Based on Council decision C1/22, HSSC invited the subsidiary working groups to examine assessments on budget requests for the year 2019. During the recent NIPWG meeting the group had discussions on that and the chair requested the provision of proposals.

It has been discussed that an overarching architectural analysis would provide benefit to eliminate duplication of information currently contained in the nautical publications and other S-100 based product specifications which are currently under development by other working groups. USCG kindly drafted a contract and investigated the estimate based on experience. The contract draft is attached as Annex A to this letter.

It was further proposed to outsource the conduction of tests on incremental GML updates. This potential contract would support the tests as requested by the S100WG. Considering that the S-100 test environment is under development, this project has not been described in detail yet. The estimate of \$50k is similar to the overarching architectural analysis.

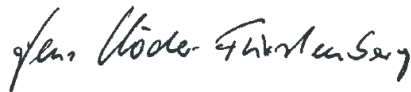
Outsourcing of other work items is possible. By doing so, you should provide a basic description of the topic and the estimate.

At this stage, it is not necessary to describe projects in detail. The final assignment will be dependent on HSSC decision and a more detailed contract draft may be requested afterwards.

Your response is requested on:

| Question | Yes | No |
|--|-----|----|
| Is the proposed draft on overarching architectural analysis appropriate and you support it? | | |
| Do you support the outsourcing of incremental GML update tests? | | |
| Do you have other NIPWG work related project which could be potentially outsourced? By replying Yes, please provide the topic and the estimate. | | |

Taking into account that the HSSC report should be provided by the 27 March, I appreciate your feedback by the 26 March (end of business in Europe 16:00 CET) at the latest.



Jens Schröder-Fürstenberg,
Chair, NIPWG

Annex: Draft contract description on overarching architectural analysis of S-100 related product specifications.

Annex:

Project: Analysis of the Digitization of Nautical Publications

Working Title: Development of an Architectural Strategy to Efficiently Implement S-100 related Navigation Publications in support of the IMO eNavigation Initiative.

Background: The International Hydrographic Office (IHO), in support of the IMO eNavigation initiative, has tasked their Nautical Information Provision Working Group (NIPWG) to begin eNav implementation through digitization of Nautical Publications utilizing the established S-100 Universal Hydrographic Data Model as a guideline. During NIPWG5 it was realized that an overarching architectural analysis would provide benefits to eliminate duplication of information currently contained in the nautical publication product specifications (PS) and PS candidates and S-101. Additionally, it was abundantly clear that an analysis is necessary to determine which data elements contained in the publications should be included in future versions S-101 PS and which elements should be included in separate S-1xx nautical publication PS. It is the conceptual notion of NIPWG that future S-1xx PS would be used as an additional data layer available to the mariner to assist with voyage planning and as a situational awareness tool.

(Draft) Statement of Work: The contractor shall review all current IHO recognized publications for content and assign weighted values which consider principles such as data necessary to fulfil carriage requirements, navigational value (e.g. information necessary for safe navigation or information used to elucidate charted features), and data elements already incorporated in the S-101 PS (current state). These weighted values shall be used by the contractor to develop a recommendation as to the value of the data with regard to safe navigation and if it supports either the ECDIS route planning or route monitoring functions aboard ship.

Additionally, the contractor shall interview NIPWG membership to determine if new datasets (not currently contained in Nautical Publications) exists (or planned) and apply the same rigor assigned to current publications.

Final Report: The contractor's final report, due at the end of the performance period, shall include:

- matrix of datasets (with data duplication annotated),
- analysis of dataset as they relate to navigation safety or general information (e.g. route monitoring or planning),
- matrix of datasets already contained in S-101,
- matrix of datasets recommended to be included in future versions of S-101 and those which should be produced in an S-1xx PS ,
- a strategic and overarching architectural recommendation for the efficient implementation of digitized Nautical Publications.

Performance Period: (estimates 3-4 months)

Estimated Cost: (\$50k similar to work conducted in the U.S.)