Paper for Consideration by SCUFN

Proposal for the development of new SCUFN website interface and database prototyping

Submitted by:	KHOA/KIGAM
Executive Summary:	This document introduces the improvements the KHOA/KIGAM made on SCUFN integrated web services and suggests a way to enable interoperability with S-100.
Related Documents:	SCUFN29-06B, SCUFN29-07.1A, SCUFN29-07.2, SCUFN29 (paragraphs 6.2, 6.3, 7.1, 8.1), Action SCUFN29/150, B-6
Related Projects:	GEBCO Gazetteer, IHO SCUFN webpage

Introduction / Background

The 29th SCUFN meeting in 2016 discussed ways to improve submission and review of undersea feature names (UFN) proposals and decided to establish web services for submission and review of UFN proposals based on S-100 database so that it can be serviced as an S-1xx in the future.

In accordance with the Action SCUFN29/150, this document reports on the progress made with the web services and future plan.

Analysis/Discussion

The web services for submission and review of UFN proposals were developed with the support of KHOA/KIGAM and are operation since 2015.

The IHO Secretariat is providing the GEBCO UFN Gazetteer based on GIS system with the support of the NCEI Gazetteer Project Team under NOAA.

However, issues have risen among the services when it comes to interoperability and maintenance (see Figure 1).

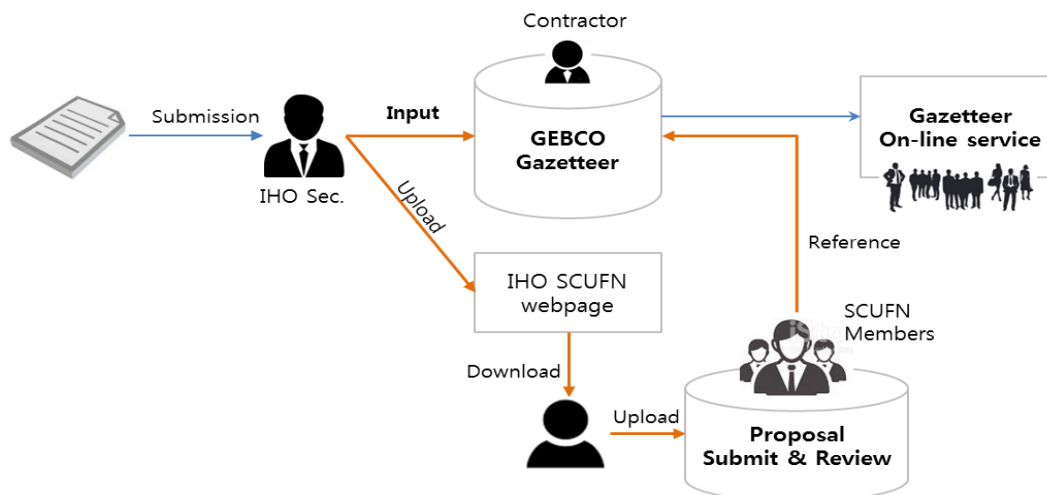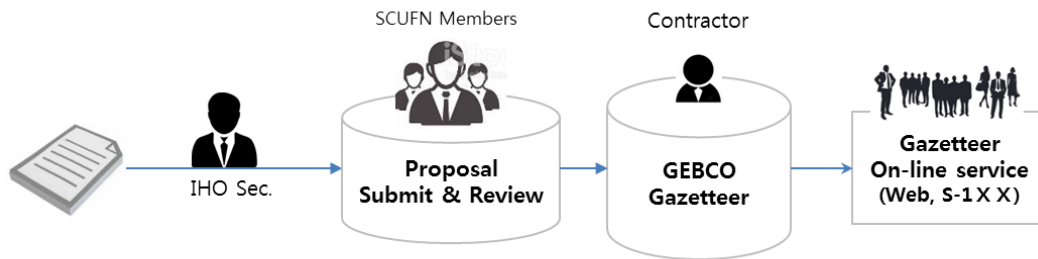Figure 1. Current procedure for submission and review of UFN proposals

Figure 2. Proposed procedure for submission and review of UFN proposals

Furthermore, in order to service S-100 based product specifications in the future, it is necessary to solve the issues by re-establishing the structure of the database.
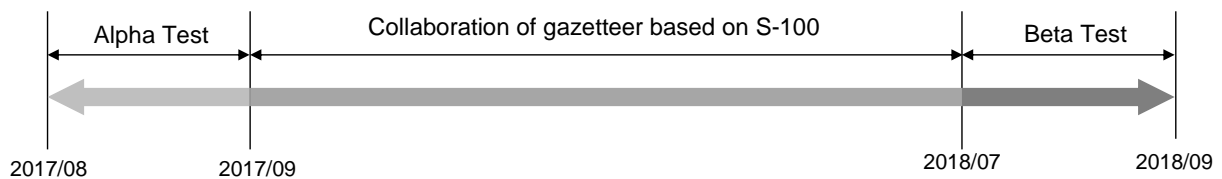
Conclusions

KHOA/KIGAM have re-established the whole system as the following in order to improve the efficiency of the web services and to service S-100 based product specifications in the future.

• Incorporated the existing three systems into one

• Developed a function to enable interoperability between web services for submission and review of UFN proposals and the Gazetteer database

• S-100 based Gazetteer will be created as of September 2017 and this will enable harmonization between UFN and hydrographic information.

To establish database appropriate for the structure and service of S-100, we plan to develop S-100 based UFN product specifications in cooperation with the UFN PT and S-100WG.

Timelines

Recommendations

The IHO Secretariat and members of SCUFN are welcome to inform us on problems they may encounter when using the new services and provide ideas for improvement.

Justification and Impacts

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With the development of S-100 based UFN product specification, it is expected that the use of UFN data in harmony with various types of hydrographic information will be increased.

Action required of SCUFN

SCUFN is invited to:
    a)   Note this paper
    b)   Provide feedback on the services improvements
    c)   Provide the Gazetteer DB in order to establish integrated DB