Paper for consideration by TSMAD

S-100 Route Exchange Specification

Submitted by:	Finland
Executive Summary:	This paper provides information on data format used for exchange of route information during a pilot project.
Related Documents:	TSMAD23-5.1.1
Related projects:	S-100

Introduction / Background

1. Finnish Transport Agency has an ongoing pilot project for exchanging route information between vessels and VTS centers on shore. During this project proof-of-concept of exchange of route information has been made. During the tests vessels made route plan on ECDIS on-board and the route information was transferred in xml-format via internet to VTS centers real time traffic image a shore.

Analysis/Discussion

2. The basic idea in the pilot project and in the planned service is that vessels will make their route plan on ECDIS onboard; from there it will be transferred to maritime authorities via an internet based system. The route plan will be examined automatically for potential dangers, e.g. water depth, objects. Results of this examination will be sent back to the vessels. At the same time vessels will be provided with other information for the planned route. This can include information on weather- and ice conditions, MSI, and information about other possible hazards or anything unusual along the route.

3. Accompanying is the XML-schema specification used during the test.

Conclusion

4. The submission by the UK highlighted the need for a standard format for the exchange of basic route information between ECDIS systems. This can be expanded to include the exchange of this information between ship and shore sides. This paper provides information of one XML-format that has already been tested in this use.

Action Required of TSMAD

To note above information.

Attachments

1. Waypoint information Exchange XML schema specification
2. Vessel Waypoint exchange schema
3. Example xml dataset