

**Paper for consideration by IHO S-100WG3**

**S-63PT update**

Submitted by:	S-63 Project Team chair
Executive Summary:	S-63 Project Team status update
Related Documents:	S-100, S-101
Related Projects:	

**Introduction / Background:**

The S-63 project team exists to develop content within S-100 (Part 13) which replicates the functionality of the current S-63 standard and supporting data protection scheme, currently managed by the IHB. The main content required is within S-100 but an additional output to S-101 to define an implementation is also required.

The project team is charged with taking the existing S-63 implementation, currently used exclusively by IHO S-57 within type approved ECDIS, and adapting it for use by multiple IHO S-100 product specifications. A number of other architectural goals exist, specifically:

- To keep changes and departures from the existing standard and its algorithms to a minimum whilst increasing the security of the current scheme.
- To enable selective implementation of the copy protection and data authentication mechanisms within the data protection scheme.
- To allow for multiple scheme administrators within the S-100 ecosystem
- To provide a reference implementation for the security and distribution of IHO S-101 ENC data.

**Status Update:**

The last meeting of the S-63PT was at the S-100WG meeting in Genoa in March 2017. Following the discussions at that meeting a draft was issued to the PT members for review and further input. It was envisaged at the time that a full working draft could be tabled for S-100WG3. Unfortunately due to resource constraints this has not been possible and little additional input has been received or created in that time. Although the framework of the S-100 S-63 content is defined, substantial parts of the specification remain to be drafted and reviewed.

Recently, Norway announced they are able to resource the drafting of a replacement to the current S-63 and are prepared to submit this documentation into the project team for review and use within the new S-100 content. This would potentially allow the creation of the required material in a much shorter timescale. It was also planned for the S-63PT to meet during S-100WG3 - due to travel constraints this meeting will no longer take place and has been rescheduled to coincide with the S-101PT meeting in June 2018. It is hoped that by then the input from Norway will be submitted and reviewed by correspondence by the PT members and the new additions to S-100 (and S-101) can be drafted for final review.

**Recommendations:**

S-100WG is asked to:

- Note the contents of this report.