

3RD MEETING OF THE HYDROGRAPHIC SERVICES AND STANDARDS COMMITTEE
IHB, Monaco, 8-10 November 2011
(Chair Group Meeting on 7 November p.m.)

Paper for Consideration by HSSC-3

Report of the Data Protection Scheme Working Group (DPSWG)

Submitted by:	Jonathan Pritchard, UKHO, Chair
Executive Summary:	This report describes the activities of the DPSWG during the past year.
Related Documents:	IHO S-63 edition 1.1.1
Related Projects:	None

Meetings Held During Reporting Period

A workshop and meeting was held in February 2011 at the IHB in Monaco. This was attended by a variety of group members and stakeholders and discussed issues with the current standard's implementation and gathered input/feedback to guide a new edition.

Date and Venue for Next Meeting

None planned at this time.

Review of activities against Work Program

This year's work for DPSWG has three main elements:

1. DPSWG workshop.

Progress on a new version of the S-63 standard. This item has progressed mainly through a 2 day workshop held at the IHB in February following the ECDIS anomalies meeting. This was a well attended meeting with input from many stakeholders including IHB, ECDIS manufacturers, data servers and Member States. A review of both current issues and future requirements for future editions of S-63 was held with a lot of useful input captured.

The main conclusions of the workshop were as follows:

- The extent to which the current edition of S-63 (1.1) has been implemented is not clear. Although S-63s inclusion in iec61174 has led to a good level of compliance post 2009 there is a considerable number of older systems which may or may not implement the full requirements of S-63 edition 1.1. A survey was designed and carried out of all data servers and ECDIS manufacturers with the aim of establishing a fuller picture of S-63 compliance across all implementers. Early results from this survey have been disappointing and DPSWG and IHB will be looking to follow up scheme participants for answers in the coming weeks. The results of this work will feed joint RENC discussions and will assist data servers and other stakeholders in their own migration to a full implementation of S-63 edition 1.1.
- A "wishlist" of requirements for a future version of S-63 was compiled. This touched on many areas of ENC authentication and distribution and provided valuable guidance for when a new version approaches the drafting stage.

A new version of S-63 remains to be drafted. Although this was planned for 2010-2011 it has not progressed beyond conceptual outputs from the meeting held in Monaco. The main thrust

of many stakeholders still remains within the S-101 / e-Navigation encoding area and the ability to draft a new edition has many dependencies on the results of other sub working groups within TSMAD.

Many discussions continue in other forums however and the results of these will not be lost. DPSWG members are present in RENCs, other IHO working groups as well as groups with wider remits such as e-Navigation and distribution and authentication of ENC is discussed in many of these forums as well. S-101 progresses (as do other S-100 based product specifications) and is now beginning to output real data in real form. The requirements of many stakeholders are now much clearer and it is hoped that continued working within the new TSMAD structure will coax more requirements out for future data distribution.

Support to the current IHO data protection scheme.

Technical support has continued to be provided to the IHB in support of the data protection scheme. In particular the following items are of note:

1. There has been a large proliferation of new OEMs this year, primarily from China bringing the total to 188. The numbers of new OEMs has meant expansion of the keys used to identify OEMs and shows no sign of decreasing.
2. Support has been given by DPSWG chair to the RENC cooperation group on S-63 implementation. This prompted the issuing of the latest questionnaire and is a key customer for its results.
3. Support queries over the scheme reflect an appetite in wider markets for ENC data alongside ECDIS itself. Guidance has been given by the IHB and DPSWG members to numerous bodies wishing to implement S-63 and has highlighted the key position the IHO scheme plays in safeguarding Member States' interests in the use of their data and the responsibilities of the (now) large numbers of OEMs in protecting those interests.

Work with other working groups.

As mentioned above DPSWG members are present in many international working groups and other fora and this continued this year. It remains of paramount importance that DPSWG has a good visibility and input into TSMADs development of S-101 if a future S-63 is to improve end user experience and protect the interests of Member States.

The work on ECDIS anomalies has raised the issue of how easy it is for different standards to get out of step with each other and the proposed restructure of the HSSC working groups will hopefully draw members and standards together into creating a more harmonised approach to future data distribution.

The DPSWG therefore proposes to HSSC the following work programme for 2011-2012:

- Continue to provide support to users of the S-63 Protection Scheme via IHB.
- Provide information to OEMs, Data Servers and IHO working groups on migration to S-63 edition 1.1.1 from edition 1.0
- Draft a future edition of S-63 in conjunction with other HSSC working groups where appropriate.

Actions Required of HSSC

HSSC is invited to:

1. Note the content of this report
2. Approve the work programme proposed:
 - a. To seek information on adoption of S-63 edition 1.1.1 by OEMs and Data Servers and provide information to stakeholders on migration issues.
 - b. To continue the work of supporting S-63 edition 1.* users
 - c. To commence definition of S-63 edition 2.0

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Proposed Work Plan 2011-2012

1 Work Plan 2011-12

- A Provide technical and operational support to Data Servers and OEMs developing or operating systems or services compliant with S-63.
- B Produce new edition of S-63 to complement S-101

Task	Work item	Priority *	Milestones	Start Date	End Date	Status **	Contact Person(s)	Affected Pubs/Standard
A.1	Provide S-63 technical and operational support to Data Servers and OEMs	H	Ongoing	01.08.03		O	DPSWG members	S-63 edition 1.0/1.1
B.2	Develop a more detailed work plan for future standards relating to Data Protection and Security of ENC data.	H	Ongoing	01.10.08		C	DPSWG members	S-63, S-101
B.1	Engage stakeholders in drafting of new edition of S-63 to support S-101 development	H	Ongoing	1.9.10		O	DPSWG members	S-63, S-101

1.1 Meetings

Date	Location	Activity
24-25 Nov. 2003	IHB, Monaco	DPSWG 3
22-23 June 2004	IHB, Monaco	DPSWG 4
31 Aug - 1 Sept 2006	IHB, Monaco	DPSWG 5
28-30 May 2007	IHB, Monaco	DPSWG 6
31st March – 1st April 2009	IHB Monaco	DPSWG 7
13th -14th February 2011	IHB Monaco	DPSWG 8

* H = High, M = Medium, L = Low

** P = Planned, O = Ongoing, C = Completed

**IHO Data Protection Scheme Working Group (DPSWG)
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