

1st IHO-HSSC Meeting
The Regent Hotel, Singapore, 22-24 October 2009

Paper for Consideration by HSSC-1

Report of the Data Protection Scheme Working Group (DPSWG)

<i>Submitted by:</i>	Jonathan Pritchard, UKHO, Chair
<i>Executive Summary:</i>	This report describes the activities of the DPSWG during the past year.
<i>Related Documents:</i>	None
<i>Related Projects:</i>	None

Meetings Held During Reporting Period

DPSWG7 held 31st March – 1st April.

Date and Venue for Next Meeting

None planned at this time.

Work Program

The current edition of S-63 remains at edition 1.1. During the course of 2008/2009 a number of major OEMs took their new ECDIS through the type approval within the latest revision of iec61174. This revision of the type approval standard refers to, and includes tests based upon, S-63 edition 1.1. Backed up by a comprehensive test dataset most OEMs and type approval authorities were able to complete S-63 testing successfully. The testing did, however, generate a number of clarifications and comments on the main S-63 document. These are being collated into edition 1.1.1 and it is proposed that this version, when it is completed, be accepted as the up to date version of S-63 moving forwards.

The meeting held at IHB 31/3-1/4 concentrated on two main themes, the recent activities within edition 1.1 and future iterations of the standard in conjunction with S-100/S-101. In terms of implementation of S-63 edition 1.1 it is clear that some OEMs are already producing equipment which is compatible with edition 1.1 ENC data. What is not clear is whether these systems are backwards compatible as well (i.e that they are able to also load data in the older edition 1.0 format). It was agreed that DPSWG, on behalf of the IHB should seek to clarify the OEMs position by writing to all IHO OEMs (126 at last count) to establish compatibility across the community. This information will be made available to data servers who can then guide their developments to internal production systems.

In terms of S-100/S-101 the meeting spent a day looking at how the new product specification is likely to be structured and understanding the areas where we can learn from S-63 development. It is clear that S-101 will be sufficiently different from S-57 ENC data to warrant a new edition of S-63 (edition 2.0) and effort will be needed both from DPSWG and the OEM community to ensure this is drafted early. A new version will need to support the development of S-101 data distribution agreements globally and a priority will be to understand stakeholder requirements throughout the ENC supply chain. A new edition of the standard will need to cover distribution technologies, copy protection and authentication as well as covering the transition to predominantly online channels for ENC data in the future so a lot of subject areas and stakeholders need to be covered. Input from member states and RENCs will be needed to ensure appropriate structures and technical facilities exist within the

future standards and the next year's activities will be focused on this. DPSWG also provided input to TSMAD discussions on S-101 and presented ideas on how we can learn from our collective past experience of ENC distribution.

The DPSWG therefore proposes to HSSC the following work programme for 2009-2010:

- Complete S-63 edition 1.1.1 (probably the last 1.x edition of the current standard)
- Continue to provide support to users of the S-63 Protection Scheme with IHB consultation.
- Provide information to OEMs and Data Servers on migration to S-63 edition 1.1 from edition 1.0.
- Hold appropriate meetings, forums and workshops to define S-63 edition 2.0 in conjunction with the development of S-101.

Actions Required of HSSC

HSSC is invited to:

1. Note the content of this report
2. Approve the work programme proposed:
 - a. To complete S-63 edition 1.1.1.
 - b. To monitor implementation of S-63 edition 1.1/edition 1.1.1 by OEMs and Data Servers and to respond to industry queries.
 - c. To continue the work of supporting S-63 edition 1.* users.
 - d. To commence definition of S-63 edition 2.0.

IHO Data Protection Scheme Working Group (DPSWG) Proposed Work Plan 2009-2010

1 Work Plan 2009-10

1.1 DPSWG Tasks

- A Prepare S-63 edition 1.1 to provide a more precise description for a compliant implementation of the data protection scheme.
- B Provide technical and operational support to Data Servers and OEMs developing or operating systems or services compliant with S-63.
- C 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	Prepare S-63 edition 1.1	H	Completed	01.09.06	01.11.07	C	Richard Coombes / Jonathan Pritchard, UKHO	S-63 edition 1.0
A.2	Prepare a comprehensive test data set for edition 1.1 including full support for a multi supplier environment.	H	Completed.	01.09.06	15.12.07	C	Robert Sandvik, Primar	S-63 edition 1.0
A.3	Provision of S-63 edition 1.1 to IHB for publication.	H	Completed	15.12.07	01.01.08	C	Robert Sandvik, Primar	S-63 edition 1.0
A.4	Prepare information on migration to S-63 edition 1.1.1 to OEMs and Data Servers and monitor migration.	H	Ongoing	1.8.09	31.12.09	O	Richard Coombes / Jonathan Pritchard, UKHO	S-63 edition 1.1
A.5	Provide input to IEC61174, Ed3 on the tests required for ECDIS in respect of S-63 Encrypted ENC's. Produce a comprehensive set of test data in support of this and S-64.	H	Completed	01.05.08	31.12.08	C	Richard Coombes	IEC61174 Ed3 and IHO S-64 Ed 1.1
B.1	Provide S-63 technical and	H	Ongoing	01.08.03		O	DPSWG members	S-63 edition 1.0/1.1

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

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

Task	Work item	Priority *	Milestones	Start Date	End Date	Status **	Contact Person(s)	Affected Pubs/Standard
	operational support to Data Servers and OEMs							
B.2	Develop a work plan for future standards relating to Data Protection and Security of ENC data.	H	Completed	01.10.08		C	Jonathan Pritchard, UKHO	S-63, S-101
C.1	Engage stakeholders in drafting of new edition of S-63 to support S-101 development	M	Ongoing	1.9.09		O	Jonathan Pritchard, UKHO	S-63, S-101

1.2 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

**IHO Data Protection Scheme Working Group (DPSWG)
MEMBERSHIP AND CONTACTS**

<i>Name</i>	<i>Company</i>	<i>Phone</i>	<i>Fax</i>	<i>E-mail</i>
Robert Sandvik	Norwegian Hydrographic Service	+47 51 93 95 03	+47 51 93 95 01	robert.sandvik@primar.org
Jonathan Pritchard	UK Hydrographic Office	+44 1823 337 900	+44 1823 284 077	jonathan.pritchard@ukho.gov.uk
Richard Coombes	UK Hydrographic Office	+44 1823 337 900 x3350		Richard.Coombes@ukho.gov.uk
Tony Pharaoh	International Hydrographic Bureau	+377 93 10 81 08	+377 93 10 81 40	apharaoh@ihb.mc
Michel Huet	International Hydrographic Bureau	+377 93 10 81 04	+377 93 10 81 40	mhuet@ihb.mc
Greg Levonian	Canadian Hydrographic Service	+1 (613) 996-2018	+1(613) 996-9053	levoniang@dfo-mpo.gc.ca
Mathias Jonas	Bundesamt für Seeschifffahrt und Hydrographie	+49 40 3190 7330	+49 40 3190 5000	mathias.jonas@bsh.de
Bruno Tréguier	EPSHOM	+33 2 98 22 17 49	+33 2 98 22 03 66	bruno.treguier@shom.fr
Nick Ligacs	Australian Hydrographic Service			nick.ligacs@defence.gov.au
Toru Kajimura	Japan Hydrographic & Oceanographic Department			tooru-kajimura@kaiho.mlit.go.jp
Raj Alla	IIC Technologies Private Ltd	+91-40-335 4806	+91-40-335 6349	rajalla@iictechnologies.com
Takeshi Tokoi	Japan Radio Company Limited	+81-422-45-9881	+81-422-45-9922	tokoi.takeshi@jrc.co.jp
Martin Taylor	Kelvin Hughes	+44-208-502-6887	+44 208 559 8524	martin.s.taylor@kelvinhughes.co.uk
Andy Fromings	Kelvin Hughes	+44-208-502-6887	+44 208 559 8524	Andy.Fromings@kelvinhughes.co.uk
Gert Büttgenbach	SevenCs	+49 40 851 72 40	+49 40 851 54 40	bue@sevencs.com
Juergen A. Kuternoga	ChartWorld			ku@chartworld.com
Peter Scott	ECC AS	+47 51 93 95 07	+47 51 93 95 01	peter.scott@ecc.as
Bernhard Noeggerath	SAM Electronics			bernhard.noeggerath@sam-electronics.de
Wolfgang Pieper	SAM Electronics	+49 421 1784 1197		Wolfgang.Pieper@sam-electronics.de
Konstantin Ivanov	Transas			Konstantin.Ivanov@transas.com