



Hydrographic Services and Standards Committee

Report of the DPSWG

To HSSC 7

November 2015

Jonathan Pritchard [chair]

Principal activities and achievements

- ✦ Publication of S-63 1.1.2
 - Now live on IHO website
 - Includes new Annex defining ECDIS update Status Report
- ✦ Review and update of Encrypted Test datasets for S-64
- ✦ Input to new edition of S-63 for S-10x
- ✦ Support to IHO data protection scheme participants



Edition 1.1.2

✦ Update status report.

IHO S-63 Data Protection Scheme

3.3.7 – Examples of ENC update status report.

ENC Update Status Report.

Vessel Name: HMS Goteborg
Identifier: IMO 4653321
ENC Update Reference Date: 16 May 2013 : WK24/2013
Date of Report: 1 Jun 2013
Content: Full

Chart Status Summary:

Chart Status:	Count
Total:	50
Up to Date	38/50
Not Up to Date	10/50
Withdrawn	2/50
Unknown	0/50

Data Server: GB				
Cell Name	Edition	Update	Issue Date	Status
DE316001	5	1	13 Mar 2013	Not Up to Date
DE416010	1	1	12 Apr 2012	Not Up to Date
DE416020	6	2	11 May 2012	Not Up to Date
DE416021	8	3	10 May 2012	Not Up to Date
DE416030	3	0	01 Jan 2013	Not Up to Date
DE516175	6	6	01 Jan 2013	Not Up to Date
DE516200	8	5	04 May 2013	Not Up to Date
DK2KATGS	4	4	22 Apr 2012	Not Up to Date
DK2LILBL	2	0	14 Nov 2012	Not Up to Date
DK2SKARK	6	7	25 Oct 2012	Not Up to Date
DK2STOBL	9	6	06 Aug 2011	Not Up to Date
DK4ABFNF	4	9	21 Jan 2011	Withdrawn
DK4FAVSF	2	1	19 Apr 2011	Withdrawn
DK4KATGN	1	2	28 Feb 2013	Up to Date
DK4KATGS	1	11	17 Jun 2012	Up to Date



Migration to S-63 1.1

Status as of	1 Jan 2014	31 Mar 2014	30 Jun 2014	30 Sep 2014	31 Dec 2014	31 Mar 2015	30 Jun 2015
Consolidated percentage of legacy users reported by the data servers	21 %	10 %	8 %	6 %	6 %	5 %	4,5 %

✦ HSSC to consider if a separate decision is required in respect of migration.

✦ Options:

- a. No further monitoring and no action, considering that there is no major drawback to letting the remaining users continue using S-63 Ed. 1.0 until their legacy systems are removed or replaced, however long it may take
- b. Continue monitoring the situation on a quarterly basis and postpone the consideration of any further action until HSSC-8
- c. Continue monitoring the situation on a quarterly basis and inform the two data servers that the exemption will terminate at [date to be notified with [six-month] notice]. The date could be aligned with the end of the authorized use of S-52 Edition 6.0 and S-52 Presentation Library Edition 3.4 (expected date: 1 Sept 2016) which will require a system upgrade.
- d. Continue monitoring the situation on a quarterly basis and requests that the two data servers negotiate a termination date with each legacy user and report to the IHB within [six-months].



HSSC6/23:

- ✦ “Extension of S-63 certificates to other navigational products” - “DPSWG to consider the extension of S-63 certificates to other navigational products, and report to HSSC with an assessment of additional resources needed (if any) and potential impact on other tasks and their prioritization.”
- ✦ Summary of discussions to date
 - S-63 in principle can be applied to most file based data products in a modular way
 - Copy protection (encryption and permits)
 - Data Authentication (digital signatures)
 - Service Delivery (media, updating etc..)
 - These “could” implemented/standardised separately – agreements too.
 - Much of this is already reflected in the new S-63 2.0 structure
- ✦ Today’s wording of the standard doesn’t make these boundaries clear. A redraft of today’s standard would be needed in addition to S-63 2.0.



S-64 input.

- ✦ Comprehensive review of existing encrypted test datasets
- ✦ Update of permits and data
- ✦ Incorporation of data review into new document
- ✦ Live on IHO website



New Edition of S63 for S-10x

- ✦ Main item on work plan
- ✦ Progress in drafting is slow. Current draft has sections defined, some of the common content identified and new content for encoding drafted. All in line with agreements within DPSWG meetings and correspondence.
- ✦ Outstanding Things to Do:
 - Common elements with existing S-63 (scheme structure)
 - New content
- ✦ Revised plan of action
 - Continue drafting (google group to monitor progress) drafting group?
 - Complete draft prior to S-100WG March 2016
 - Present additional input to S-101/S-100 March 2016
 - Draft to HSSC8 – plan for software/data support to be considered in 2016
 - Meeting colocated with S-100 WG, March 2016. (tbc)

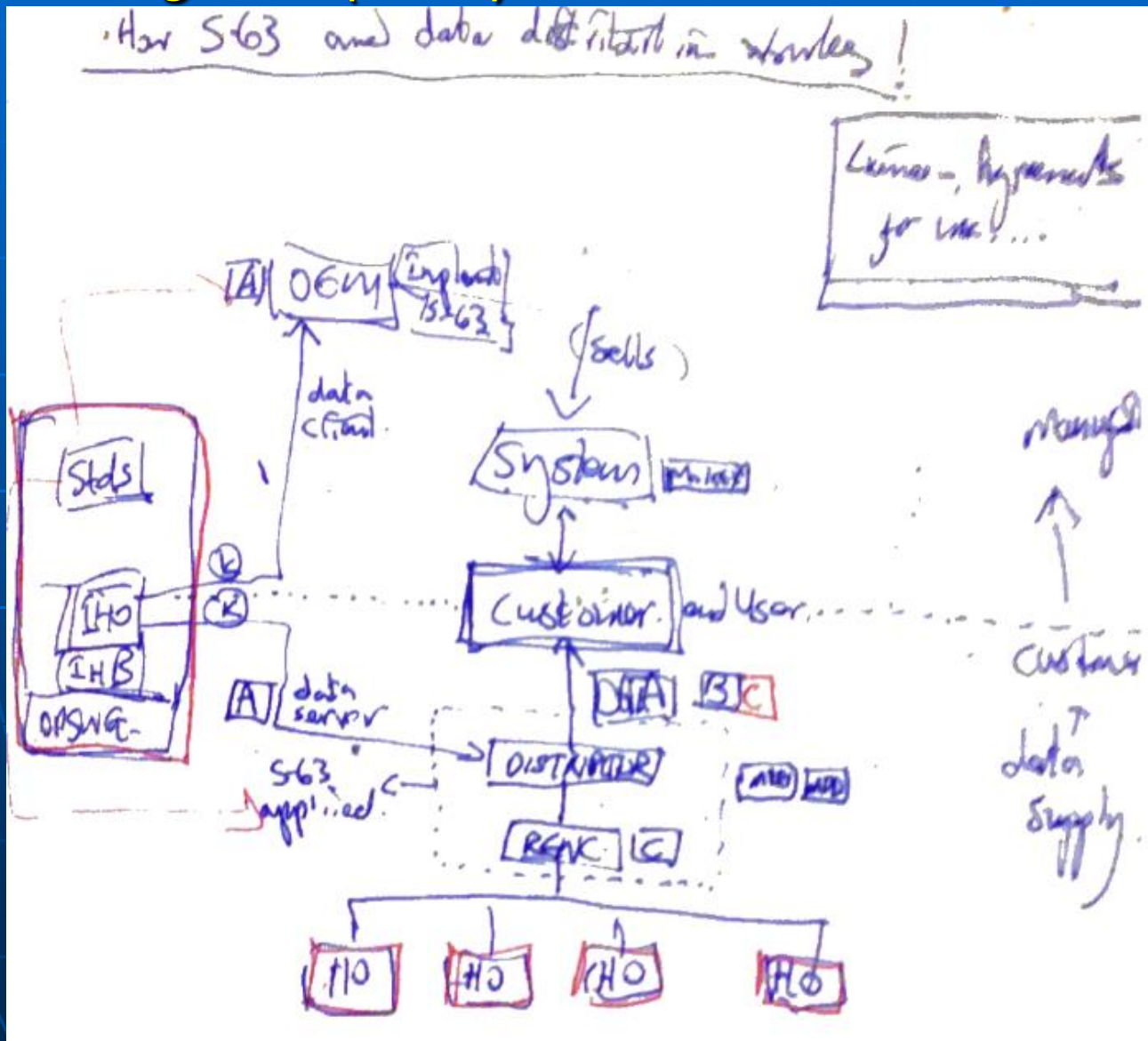


Data Protection Scheme status.

- ✦ Membership currently 275, an increase of 39
- ✦ Not purely ECDIS manufacturers – wider participation
- ✦ Licencing, copy protection and agreements are common questions
- ✦ Who is using the scheme? What are they using it for? Does it preserve the best interests of member states?

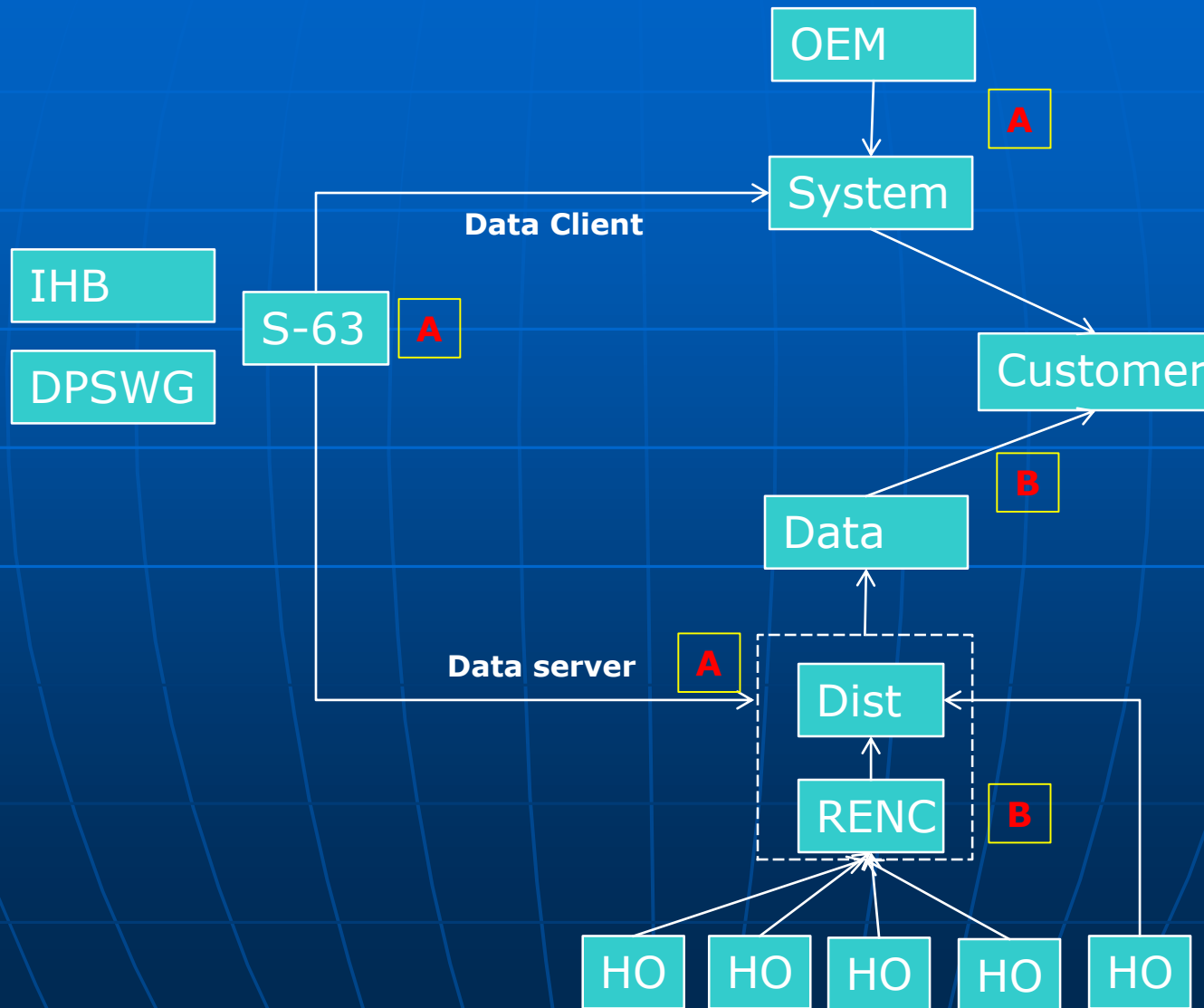


The diagram (mk1)



The diagram (mk2)

- A** DPS Agreement
- B** Data EULA



Licencing

- ✦ DPS exists to implement S-63s structures for
 - Copy protection
 - Data integrity
 - Service management.
- ✦ Serves member state interests by promoting use of ENC for end users
- ✦ ENC/ECDIS specific
- ✦ Not designed for non-navigational purposes or streamed delivery
- ✦ Could partition OEMs/data servers into ECDIS/non-ECDIS to make distinction clearer to end user.
- ✦ Must work in conjunction with developing T&Cs for data.



Problems or outstanding issues

- ✦ Drafting progress
- ✦ Common Resources
- ✦ Future Requirements
- ✦ Plan to meet in 2016 to consider
 - A new draft
 - How we support it with data and infrastructure
 - Advise on agreements and membership



Future work programme

- ✦ S-63 edition 2.0 – completed draft to meeting March 2016
- ✦ Ancillary elements
 - Provide input to March 2016 S-100 WG meeting
- ✦ Work with interested member states and stakeholders to look at structure and operation of the scheme
- ✦ Establish how to support a future distribution and authentication mechanism with the IHO and wider community.



Action requested of HSSC

- ✦ Endorse the IHO DPSWG report
- ✦ Consider whether a separate decision is required re: S-63 1.1 migration and data server actions
- ✦ Approve revised timescales for workplan items as per report
- ✦ Endorse the continued activity of the WG under its current TORs.

