

IHO DATA PROTECTION SCHEME
Publication S-63, Edition 1.0

Reference: 1) IHB Circular Letter 66/2002, dated 20 December 2002.
2) IHB Circular Letter 58/2003, dated 4 September 2003.

Dear Hydrographer,

As reported in CL 66/2002, IHO Member States approved the adoption of an IHO Data Protection Scheme for ENC, based on the Primar Security Scheme, and agreed that the IHB would act as Scheme Administrator (SA) for this new IHO Standard.

Edition 1.0 of the IHO Data Protection Scheme has now been completed and is issued as IHO Publication S-63. In order to allow for stability in the implementation of the IHO Standard, the 15th CHRIS Meeting (June 2003) recommended that Ed. 1.0 of S-63 be frozen for, at least, two years, i.e. until 1st November 2005 at the earliest.

S-63 describes the IHO recommended standard for the protection of ENC information. It defines security constructs and operating procedures that must be followed to ensure the data protection scheme is operated correctly and to provide specifications that allow participants to build compliant systems. It defines roles and responsibilities in the protection of ENC data produced by HOs and distributed to ECDIS systems. In particular the standard meets the requirements of both the *Data Server* (organisations providing ENC Services protected by the scheme) and *Data Client* (end user systems using the ENCs).

The "S-63 package" consists of the following components:

- **S-63 Documentation.** The publication itself, referred to as Edition 1.0 of S-63 (82 pages). It includes a general description of the IHO Standard (security constructs and operational procedures), complemented with several annexes / appendices giving information on procedures to be followed by data servers and manufacturers to participate in the IHO scheme, and on the associated test data and software kernel. A limited number of printed copies have been produced and can be supplied by the IHB, on request (info@ihb.mc).
- **Test Data.** Provided as part of Appendix 1 of S-63 to help developers of data server and data client applications to familiarize themselves with the IHO standard and to verify their developments. This includes a **Test Data Implementation Guide** (50 pages).
- **Software Kernel.** Part of Appendix 2 of S-63 and contains a java library with source code that provides a reference implementation of all the functionalities of the S-63 standard.
- **Data Server Agreement and OEM Agreement.** Required from any new participant in the scheme agreeing to safeguard the security interests of all other participants.

- **SA Certificate.** The root digital certificate for use within the IHO protection scheme, issued by the IHB operating as Scheme Administrator. It is a self-signed certificate.

All S-63 components are available for downloading from the IHO website (www.iho.shom.fr/ECDIS/s63intro.htm). The S-63 page also provides information on how to implement the IHO scheme.

Edition 1.0 of S-63 was prepared and is maintained by the Data Protection Scheme Working Group (DPSWG) of the IHO CHRIS Committee, chaired by Mr. Robert Sandvik (ECC), in liaison with the IHB. It is based on the protection scheme developed and operated by Primar as part of their protected ENC service, with the Norwegian Electronic Chart Centre AS (ECC) and United Kingdom Hydrographic Office (UKHO) as the original contributing organisations. The test data sets (Appendix 1) have been jointly prepared by ECC and UKHO. The security scheme software kernel (Appendix 2) was developed by the Canadian Hydrographic Service (CHS). The IHB is most grateful to the above organisations for their continuous support in preparing and maintaining S-63.

In order to address technical issues related to the implementation of S-63, it is planned to establish a discussion group on the Open ECDIS Forum (www.openecd.org), with Mr. Robert Sandvik, Chair of DPSWG, as leader. It is also planned that Frequently Asked Questions (FAQ) will be answered and compiled on the IHO website. These matters will be discussed at the next meeting of DPSWG which will take place at the IHB on 24-25 November 2003. See DPSWG page on the IHO website for more details (www.iho.shom.fr/COMMITTEES/CHRIS/DPSWG/dpswgintro.htm).

On behalf of the Directing Committee
Yours sincerely,

(original signed)

Rear Admiral Kenneth BARBOR
Director