

Title: Revised data protection text**S-101 Maintenance - Change Proposal Form (Draft)**

Organisation	ECC and PRIMAR	Date	19-Feb-2020
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Change Proposal Type (*Select only one option*)

1. Clarification	2. Correction	3. Extension
X		

Location (*Identify all change proposal locations*)

S-101 Version No.	Part No.	Section No.	Proposal Summary
1.0.0		11.4.2	Revision of text to harmonise with S-100 part 15
		11.6	Revision of text to harmonise with S-100 part 15

Change Proposal

Proposal for revision of text in section 11.4.2 and 11.6 so it is harmonized with S-100 part 15 data protection:

11.4.2 Support File Management

When a support file is created or a subsequent version is issued it must carry its own issue date. All support files will have a digital signature as defined in S-100 part 15.

11.6 Data integrity and encryption

S-100 part 15 defines mechanisms for providing authentication, integrity check and confidentiality using digital signatures and encryption. Authentication of the data is achieved by applying a digital signature to all files included in a S-101 exchange set.

The use of digital signatures is mandatory for all files included in a S-101 compliant exchange set to meet the requirements of IMO resolution MSC.428(98) to reduce cyber security risks among users, especially when used on navigation systems at sea. The digital signatures authenticate against the producer's public key which is included in the exchange set metadata.

All files included in the exchange set will have a digital signature, including dataset files, text and picture files, other auxiliary files and the catalogue XML file. S-100 part 15 defines how the files will be digitally signed and how the signatures are encoded.

The use of encryption for S-101 products is optional. If encryption is used, only the dataset files (ENC and updates) will be encrypted.

Change Proposal Justification

Providing more information about how digital signatures and encryption will be used for S-101 datasets so it is in compliance with S-100 part 15.