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	S-100 WG (IIC)			GE	General comments.		
		All documents		GE	Use accepted terms from S-100 in entire document.	Object is referred to as “Feature” in S-100	
		PS 1.0.0	Introduction	ED	Take out extraneous paragraphs in Introduction. Not needed for an S-100 PS.	This Product Specification provides a conceptual description of the real world entities (both physical and social) that constitute Maritime Limits and Boundaries (MLB). The MLB conceptual schema is based on S-100 Part 1 - Conceptual Schema Language. The MLB Product Specification also documents the features, attributes, code lists and enumerated lists (and their relationships) required to encode MLB features in accordance with IHO S-100.	
				GE	No data quality statements exist at the moment. Given the nature of this product specification a statement should be in the document stating a commitment to provide guidance on how data quality is approached and documented. This only needs to qualify how concepts of precision and accuracy are approached – it doesn’t have to match other product specifications, more a documentation of why S-121 is different.	Add to document at appropriate location based on guidance in S-97	
		PS 1.0.0	Overview	ED	Change Overview section text to take out use case information and simplify.	IHO S-121 is an S-100 product specification for Maritime Limits and Boundaries in the marine domain. Its data model allows for the description of marine areas, as defined by the UN Convention on the Law of the Sea (UNCLOS), and the associated rights,	

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						<p>restrictions and responsibilities while also allowing States to represent generic objects as necessary.</p> <p>Its exchange formats will support integration with other S-100 based products. The standard is based on S-100 and its model on the ISO standard 19152 Land Administrative Domain Model.</p>	
		PS 1.0.0	Scope	ED	Change Scope section text to take out use case information and simplify.	This document describes a product specification for the administration of maritime limits and boundaries composed of geographical coordinates of points identifying baselines, outer limits of maritime zones in accordance with UNCLOS, and other technical and legal details. This Product Specification complies with the IHO S-100 Universal Hydrographic Data Model.	
		PS 1.0.0	1.4.2	ED	Terms and Definitions – are these necessary, should they not just refer to S-100 definitions unless different in order to properly implement S-100 as a product specification.		
			1.4.3		Don't need KML in the list of abbreviations. Review this list once document review is done.		
			1.5 Abstract	te	Simplify Abstract in line with S-97 guidance.	This document describes a product specification for Maritime Limits and Boundaries (MLB) data as part of the suite of IHO S-100 standards. The purpose is to establish a framework of sourced and	

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						<p>versioned features for communicating in a digital form the geographic extents of marine areas and associated rights and restrictions that apply to them as well as providing a flexible and expandable framework able to support other maritime delimitation requirements.</p> <p>This product specification is also compatible with the ISO 19152 Land Administration Domain Model (LADM) structure. This integration bridges the land and maritime domain structurally and provides to the S-100 series a product specification which effectively supports the description of features defined in national legislation.</p>	
			1.5 Spatial Extents (Description)	Te	Simplify geographic extents in Spatial Extent section. The ISO reference is not needed.	This product specification applies to the maritime area.. The area of applicability are the global marine areas.	
			1.5 Content Description	Ge	The content description should refer to the formal DCEG document when written.		
			1.5 Specific Purpose	Ge	Replace text, simplify and take out extraneous information on use cases.	<p>a. The establishment of a data model that supports the description in a digital form the geographic extents of marine areas and</p> <p>b. The associated rights and restrictions that apply to them</p> <p>c. To provide a flexible and extensible framework able to support other maritime delimitation requirements.</p> <p>Built on top of the data model structuring the information, there is a need for encodings to support:</p>	

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						(1) Exchange of complete MLB features between parties (2) A structured text record oriented exchange format readable and comprehensible by both the human eye and a computer. This exchange format is designed to encode the legal aspects of the MLB features and support States Parties' minimum depositary obligations under UNCLOS.	
		1.0.0	Section 3	Te	The text in Section 3 is defining use, that's not a limitation and does not need to be included.		
			4.1 Introduction	Te	A replacement table is given below. Use cases reduced to two, exchange and deposit. This is to simplify the introduction. Technically no use cases are required for an S-100 product specification although S-97 provides for " <i>An informal description of the data product, which can read like an abstract of the specification, its purpose and intended use context</i> " within the informal data product description. The amended table below suggests some content for this.	S-121 is a feature based product, and consists of the following use cases. These are defined separately in <b>Error! Reference source not found.</b> (not sure if Annex A is actually required tbc).	

	Dataset Type	Description	Limitations	Example
1	Exchange	An approved set of MLB features for exchange with other parties	none – these datasets are complete	<ul style="list-style-type: none"> <li>Promulgation of data for public consumption</li> <li>Exchange between agencies.</li> </ul>
2	Legal Declaration	MLB features as defined explicitly by location in national legislation and or bilateral and multilateral treaties.	Usage may be limited depending on the implementation policies associated with the State's governance procedures.	<ul style="list-style-type: none"> <li>Provide human and computer readable file to support the creation of legal declarations.</li> <li>Support deposit to the UN Secretary General in accordance with UNCLOS.</li> </ul>

		1.0.0		Ge	There is no dataset level metadata in the current product specification. IHO S-97 reads		
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					<p>“In addition to the informal description of the data product (see also section <b>Error! Reference source not found.</b>), S-100 also calls for a section that describes information that uniquely identifies any dataset as being created in accordance with a specific product specification series. Different from the general information about the data product, the dataset identification is for the individual dataset” We note that there is a considerable amount of metadta within the information types defined within the PS but there is a lack of guidance about “datasets”, i.e. the aggregation of these features, their form and the metadata that should be specified as well.</p>		
			3 Dataset Identification Abstract	Te	<p>The only required text is “This document describes a Product Specification for Maritime Limits and Boundaries (MLB).” The produced in accordance is implicit in the product spec and the final sentence refers to use cases we have proposed to take out. No profiles exist in this product specification as the intended use and consequent content are at the discretion of the data producer (within the limits set by any validation tests)</p>	<p>This document describes a Product Specification for Maritime Limits and Boundaries (MLB).</p>	

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			3 Dataset Identification Abstract		The only topic categories are		
		4.2.4	Geometry	Te	In order to keep the section brief there is no need to duplicate large amounts of the S-100 Level 3a geometry description. The diagrams can be deleted along with the references in the text. The explanatory list could be deleted. S-121 doesn't further constrain the geometry at all so a single reference to Level 3a and the S-100 part is sufficient for this entire section.  S-122 has a good introduction which references the GFM and which would be good to put in at this point.	The S-121 product is based on the S-100 General Feature Model (GFM), and is a feature-based vector product. All S-121 features and information classes are derived from one of the abstract classes FeatureType and InformationType defined in the S-121 application schema, which realize the GFM meta-classes S100_GF_FeatureType and S100_GF_InformationType respectively	
		4.2.4	Geometry	Te	Take out this sentence or explain more? Does it provide something over and above S-100?	The geometry of each feature type and the feature types referenced by it shall form a consistent geometric complex.	
		5.1	Horizontal reference system	Te	Take out Greek letters, only latitude/longitude required.		
		5.2	Vertical reference systems	Te	Take out sentence – adds nothing to PS. Arguably take out entire paragraph as this product specification contains no specific attribution containing vertical datums.	The IHO S-100 object catalogue includes vertical datums as registered attributes, although IHO also indicates that S-100 is not an exhaustive or authoritative definition,	
		5.4			Take out section on EPSG registry. This section only needs to detail how S-121 uses or enhances CRS provision in S-100		
		6.3.1	Conceptual consistency	Te	Take out section on conceptual consistency. It is not required. The use cases have been thinned out so this section becomes redundant.		

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		6.3.2	Format consistency	te	Change “conformance classes” to use cases.		
		6.4.1			Make 6.4.1 into section 6.4 – there are no other subheadings so 6.4.1 isn’t required.	Change heading numbers 6.4.1 into 6.4	
		6.6	Thematic accuracy		I can’t see how 6.6. adds anything to the PS, suggest taking it out. I’m not aware of many other PS’s that have such content.		
		6.7		Te	Take out sentence beginning “Validation against...data producer”. Not required.		
		Section 7 introduction			Change types to features	The S-121 Data Classification and Encoding Guide (DCEG) describes how data defining maritime limits and boundaries should be captured using the features defined in the S-121 Feature Catalogue	
		8.2		Te	Improve readability of 8.2 – take out reference to nations.	Data sources are multiple and diverse. Implementers of S-121 will be responsible for their own data sources, which can be described and associated with geographic features using the source information types	
		Section 10			Simplified text on encoding suggested. This is complete enough for the product specification.	The data format for the data provided is dependent upon its use.  1) <b>Legal Declaration</b> – Data is provided as official legal declaration of MLB objects including supporting information that can be used to verify the correctness of the data. It is important that legal support data be simple to interpret. Since only sections of the data will be extracted and examined the efficiency of the data	

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						<p>format is not important. The data may be verbose, but it must be easy to read by humans examining the data without the need for special tools or software.</p> <p>2) <b>Exchange and General Public Release</b> – An approved dated set of MLB data that may be distributed to the general public for use. Data is provided as an S-100 dataset encoded as GML [to be defined]</p> <p>See Annex B for a complete description of the data encoding for S-121.</p>	
		Section 11			This section needs to be expanded to identify dataset discovery metadata (e.g. in section 1.6) and how features are aggregated into datasets as per S-100 (particularly Part 4a) with examples. This needs to be added to the model as well explicitly. IT would be sufficient for this release to say that explicit dataset discovery metadata will be added in a future release as well as more explicit S-100 conformant dataset generation clauses.		
		Section 9			All that needs to be stated about portrayal is in sentence suggested here. Take out all other references to portrayal as it is not required at this stage.	No specific portrayal implementation is included within this Product Specification	
S-121		Appendix A	Title		Rename title of Appendix A to S-100 term “Validation Tests”. This is an S-100 term for the content of this section.	Validation Tests.	

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S-121		A.3			Replace UUID with “persistent unique identifiers”. In S-100 unique identifiers are not attributes of features, they are intrinsic to the feature definition. Although we do not define how they are achieved (whether foids or MRNs) this validation test is a valid one.	Change title to “ <b>Test case for a persistent unique identifier</b> ” and replace UUID similarly in the body of the section.	
S-121		A.4			Delete validation test A.4. Use cases have been largely removed from the PS in these comments so validation test is not required. This test would also require specific feature/attribute combinations to be valid, see IHO S-58 for examples.	Delete A.4	
S-121		A.5 (becomes A.4)			Change title “commission” should be “duplication”. Also modify wording to be clear. This is just to not have duplicated features. Because the versioning is attributed on the feature they will be different so the longer text is not required.	Change (b) to Test method: Check that each feature is not duplicated with itself.. If two instances of a feature class exist they must be differentiated by means of attributes such as the versioning attribute or metadata.	
S-121		A6 (becomes A.5)			Change title to “data omission” to be clear. Take out “using software” (not needed), I believe this test is incorrect. Surface zone features (not area) should be bounded by linear features representing boundaries, limits or baselines? And linear features could be discontinuous. If this can’t be explicitly specified for all possible cases it should be deleted as a validation test as these tests define all expressible datasets.		
S-121		A.8 test for format consistency			Change (a) to take out allowed by S-100 (not needed) and use case remark. Also, test method is just conformacne with encoding. Software suppliers can deliver an implementation.	a) Test purpose: Verify that the encoding is compliant with the encoding specified by this Product Specification.	

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						b) Test method: conformance with encoding specification.	
S-121		Appendix B			Take out Appendix B completely. The description within the Product specification is sufficient and more detail on use cases is not required. The edits in this document restrict the use case descriptions sufficiently.	Take out Appendix B.	
S-121		Appendix C	C2.9		Take out paragraph beginning “The integration of features” and ending “into the S-101 environment”	This isn’t required within the S-100 product specification.	
S-121		Appendix C		Ge	I believe the content in the application schema could be simplified and use more direct references to S-100 but a more thorough review could wait for a future edition of this product specification. Arguably some of this content belongs in the DCEG and only an overview of the application schema structure and its implementation of the GFM is needed here.		
S-121		Appendix D Bibliography		Te	Take out Appendix D. Only normative references are required in the product specification. Anything informative can be added to the references section earlier in the document.		
S-121							
S-121		DCEG		Ge	General comments. <ol style="list-style-type: none"> <li>1. This document defines encoding rules, thus the mapping of real world features to S-100 features and attributes.</li> <li>2. IT doesn’t need to refer to the application schema unless absolutely required.</li> </ol>		

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					3. Refer to features, not objects and use S-100 nomenclature throughout. 4. Don't duplicate UNCLOS content, refer to convention for normative definitions. 5. Strait is misspelled throughout. Needs to be "strait" 6. Section 3 of this document is a description of the application schema and should be described as such 7. Section 4 of this document should conform to the format in other S-100 product specifications such as S-101 and S-122. This is for a future edition though. A paragraph to this effect should be added to this document.		
S-121		DCEG	Introduction	Te	Take out sentence 2 of introduction (adds nothing). Simplify language. Refer to features (S-100 nomenclature) not objects and use S-100 nomenclature for geometric primitives.	This document has been developed to provide consistent, standardized instructions for encoding S-121 data.  The conceptual model defines four generic feature types Location, Limit, Zone, or a Space. From these generic S-121 features all S-121 features are defined. This provides great flexibility in encoding  When used in a data set a feature is represented using a geometric primitive (Point, Curve, Surface). For a "Space" features the	

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						geometric primitive is a Surface with an elevation attribute.	
S-121		DCEG	2. Feature Types		Simplify wording.	<p>A set of predefined feature types have been established for Marine Limits and Boundaries..</p> <p>Figure 1 illustrates the relationship of the feature types to the defining features. The information contained in the defining features' attributes is included in the Feature Catalogue.</p>	
S-121		DCEG	Section 2		Take out all duplicated text from UNCLOS. Refer to definitions from list of features.		
S-121		DCEG	Section 2		Take out note beginning "Note: Four of the feature types" after list of features. This isn't part of the product specification and is an issue for the geospatial registry and domain control body at IHO to resolve, not part of the specification.	Delete note.	
		DCEG	Page 8 – state specific features		Change introductory paragraph to make clear. Also, take out definitions unless definitive ones can be supplied from the convention.	. The features below are optional for datasets intended for deposit with Secretary-General of the United Nations under UNCLOS. These features allow states to describe aspects of their national data such as internal waters.	

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S-121		Derivation of Classes		Ge	I think this document should be withdrawn as a formal part of S-121 1.0.0 and used as the basis of the application schema description for a later version of the product specification. The content is informative and, suitably condensed, should form the basis (along with Section 3 from the DCEG and existing content in the main product specification) of a clear, concise description of the model, the features it defines and their relationship to the defining convention.	Delete document from S-121 1.0.0	
S-121		Annex B encoding		Ge	This document could use some simplification. <ol style="list-style-type: none"> <li>1. Take out much of the background information to the convention and ASN.1</li> <li>2. Take out Appendix C</li> <li>3. This document should only define the textual encoding. A GML schema is being defined under the OGC pilot project which conforms to S-100 and can be used. Can the ASN.1 encoding then be taken out?</li> </ol>		
S-121		Annex B encoding		Te	Simplify overview to reduce use case discussion and clarify purpose of document.	The S-121 Maritime Limits and Boundaries Product Specification defines the structure and relationships of data elements that are used to describe Maritime Limits and Boundaries. This document, the textual Encoding describes the interfaces through which external processes and users can access MLB data. The S-121 Product Specification defines use cases for data exchange and	

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						deposit under UNCLOS. For the specific use case of deposit with the United Nations under the UN Convention on the Law of the Sea (UNCLOS) and the distribution in digital form of proclamations by nation states, a specialized human readable encoding is needed. This explicit text encoding is described in this document. In the case of deposit with the UN only those elements required to be deposited are included in the output format.	
S-121		Encoding			Simplify introduction.	Take out second paragraph completely. All content is contained in the overview.	
S-121		Encoding		Te	Section 2 simplification to take out numerous use case references.	<p>Replace section 2 with :</p> <p>The S-121 Product Specification has defined two main use cases, for exchange of data and for depository obligations under UNCLOS. This document defines only the encoding for UNCLOS deposit.</p> <p><b>Legal Declaration Data</b> – An official or unofficial legal declaration</p>	

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						<p>of MLB object(s) extracted directly from the administration environment at a specific date and time. Its usage may be limited depending on the implementation policies associated with the state's governance procedures. This dataset is a human and computer readable file formatted to contain all elements to be considered a valid legal declaration. Such a dataset can be used to support a state to create, manage and update official legal declarations defining MLB objects and can be used to deposit data with the United Nations (UN).</p> <p>The output format required to support a legal declaration must be explicit and easy to read by non-technical experts in a judicial, administrative or other similar environments and able to be used to support deposit with the Division for Ocean Affairs and the Law of the Sea (DOALOS) of the Office of Legal Affairs in the UN or to make a legal proclamation in a state. The output needs to look closely like the information that is printed in treaties</p>	

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						or national laws. This output must be textual so that there are no barriers to its understanding. It also needs to be simple.	
S-121		Encoding	Section 3		Take out first paragraph, not required. Also take out third paragraph, not required.		
S-121		Encoding	3.1		Take out all of section 3.1. Not required. GML schema can take the place of this in time with next release of product specification. The remarks about GML are mitigated by S-100 GML profile and the OGC project should deliver this section. 3.1 not required		
S-121		Encoding	3.2		Simplify paragraph 3.2	MLB data that is output for (i) deposit with the UN/DOALOS or (ii) output by a nation state to mirror their legal proclamations. It needs to be in an explicit and easy to read textual format.. The output for deposit with the UN/DOALOS needs to contain all the information required by the 1982 UN Convention on the Law of the Sea for deposit of straight and archipelagic baselines as well as the outer limits of the territorial sea, the exclusive economic zone and the continental shelf including the extended continental shelf beyond	

1 **CO** = Contributing Organisation (HOs should use 2 character codes e.g. FR AU etc.)  
 2 **Type of comment:** **ge** = general **te** = technical **ed** = editorial  
 3 Whilst not compulsory, comments are more likely to be accepted if accompanied by a proposed change.  
**NOTE** Columns 1, 2, 4, 5 are compulsory.

1	2	(3)	4	5	(6)	(7)	
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						200 Miles. The output that corresponds to a proclamation from a nation state needs to look closely like the information that is printed in treaties or national laws. That content will be decided by the nation state.	

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