1	2	(3)	4	5	(6)	(7)	
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MHI PS	FR	1.4.3	Abbreviations	ed	Capital letter of acronym XML (in accordance with XSLT: eXtensible Stylesheet Language Transformations)	Replace ''Extensible'' with ''eXtensible'' : ''XML eXtensible Markup Language''	Agreed
PS	rmm	3	Spatial Resolution	te	To facilitate compatibility between S-131 and ENCs,, reference S-101 for scale values instead of reproducing the S-101 table here. There has been recent discussion of scales, loading, and unloading in the S-101PT and ENCWG.	Remove table of fixed scales and reference S-101.	Done
PS	NO	4.2.1 Domain model	4.2.1	Ed	Typing error. It's missing a "1" in "S-131" in the first sentence in the paragraph.	Correct error.	Agreed
PS	SJC	4.2.1	1st paragraph	ed	"S-13", should be "S-131"		Agreed
PS	NO	4.2.1.1	Figure 4.3	Ed	The paragraph/section that follows directly after figure 4.3, can be misinterpreted as figure text, or description of the figure, because of lack of line breaks.	Insert a line break between figure text and the following text.	Agreed
PS	NO	4.2.1.2	Figure 4.7	Ed	The text in the figure/UML-diagram is not readable (too blurry or too compressed image-file).	Replace with image that has readable text.	Agreed. Appears to be PDF conversion issue.
PS	NO	4.2.1.7	Figure 4.13	Ed	The text in the figure/UML-diagram is not readable (too blurry or too compressed image-file).	Replace with image that has readable text.	Agreed. Appears to be PDF conversion issue.
PS	NO	4.2.1.7	2nd last paragraph (page 23)	Ed	ContactDetails is missing reference (X.X).	Insert reference to other chapter (or other).	Agreed New Figure added in 4.2.1.6 and referenced in 4.2.1.7. New sub-clause 11.1.2 in DCEG with guidelines.

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PS	rmm	4.2.1.9		ed	Describe meaning of multiple Applicability instances	Added sentence in para 5	Done
PS	NO	4.2.1.12	Figure 4.19	Ed	The figure is blurry and difficult to read.	Replace with image that has readable text.	Agreed. Appears to be PDF conversion issue. Using higher resolution during PDF conversion appears to fix all the blurry UML diagrams.
PS	SJC	5.5.2		te	The examples used in the explanation of complex attributes are BuoyLateral and BuoyCardinal. These two are not S-131 features.	Consider using S-131 features instead, so that PS would be even more informative and useful.	Agreed. Figure and related text amended.
PS	SJC	6.2 7.3.3		te	Only specifying that "The horizontal CRS must be EPSG:4326(WGS84)", without mentioning the required encoding format (URI) and axis order (Lat. Long) in GML anywhere in the PS, could very likely lead to errors or inconsistencies. 7.3.3 only says "The GML conventions for references and axis order must be followed."	Explicitly specify the use of URI convention and the axis order. Add "and shall be identified using the URI convention for SRS specified by OGC, which is http://www.opengis.net/def/crs/EPSG/0/4326" (Quote S-100 Ed.5.0.0 10b-11.7.) , and "The axis order is latitude/longitude"	6.2 specifies the CRS, not the encoding format. Will add to clause 7.3.3 or clause 12.
PS	SJC	6.3	1st paragraph	te	"while negative values indicate intertidal soundings (for depths) or elevations of features above the respective vertical datum." Negative values for the elevations ? Could be confusing ! In S-131, 'elevation' is an attribute of the 'Berth'.	Delete "or elevations of features" in that sentence, and consider rewriting "above the respective vertical datum"	Agreed. Will delete the portion of the sentence following "(for depths).
PS	NO	7.3.1	2nd list with constraints on geometry (top of page 37)	Ed	2nd point missing punctuation mark. Also, should the term loxodromic be explained more? There is a lot of clear and good explanations and clarifications for all various terms in the rest of the PS.	Correct typing error. Consider if term should be clarified.	(1) Agreed. Added "." (2) Added "loxodrome" to clause 1.4.2 (definition: "A loxodrome is a line crossing all meridians at the same angle,

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							that is, a path of constant bearing.) NB: The requirement for loxodromic interpolation stems from S-101, S-131 should monitor S-101 for possible changes in this requirement.
PS	SJC	8.4	above table	ed	"Table 9.2", should be "Table 8.2"		Agreed
MHI PS	FR	8.4	Data quality testing and reporting	ed	Reference to table 8.2 in text as 9.2	Replace' ''9.2'' with ''8.2''	Agreed
PS	rmm	11		te	Guidance needed about use of the language attribute and display of schedules and Applicability	Add clauses describing general portrayal rules, display of schedules and display of Applicability	New clauses added
PS	rmm	12		te	Validation checks for datum coverage and minimal population of complex attribute need a reference.	New clauses 12.15 and 12.16 about datum coverage and population of sub-attributes of a complex attribute.	New clauses added
PS	rmm	14.2	Metadata tables	ed	Differences from S-100 generic metadata should be emphasized in the metadata tables to make it easier for developers to identify them		Relevant remarks and multiplicities in metadata tables are now in bold red font.
MHI PS	FR	13.3.2	Dataset file naming	te	XML naming rules forbid use of XML elements names starting with a digit. As is, any attempt to use current naming convention 131CCCCXXXXXXXXXX_XXX.GML into GML files will result in an error.	Replace ''131CCCCXXXXXXXXXX_XXX.GML'' with ''S131CCCCXXXXXXXXXX_XXX.GML''	Withdrawn
MHI PS	FR	13.3.3	Update dataset	te	As above	As above	Withdrawn

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			naming convention				
PS	rmm	13.3.2	2nd bullet	ed	IHO is preparing to convert the producer code registry to 4-character codes. There is an IHO Secretariat at S-100 WG7 about this.	Add footnote saying zero-suffixing is a temporary expedient.	New footnote added.
MHI PS	FR	13.4.1	Support File Naming	te	XML naming rules forbid use of XML elements names starting with a digit. As is, any attempt to use current naming convention 131CCCCØØØØØØØØØØ.EEE into GML files will result in an error.	Replace ''131CCCCØØØØØØØØØØ.EEE'' with ''S131CCCCØØØØØØØØØ.EEE''	Withdrawn
MHI PS	FR	14.1	Introduction	ed	'')'' without ''(''	Delete '')''	Agreed
PS	NO	14.2	Figure 14.2	Ed	The figure is blurry and difficult to read.	Replace with image that has readable text.	Agreed. Appears to be PDF conversion issue.
PS	rmm	14.2.2	S100_Datas etDiscovery Metadata	ed	attribute metadataFileIdentifier was removed in S-100 Ed. 5	remove metadataFileIdentifier row from table	Removed
PS	NO			Ge	References to the different annexes were not listed in the text where they were discussed or mentioned. It just said something similar to "you can find this information in an annex to the PS" (in contrast to: "you can find this information in annex A"). It this done deliberately, or not? I would prefer to have reference numbers listed for the annexes (easier to look up).	Insert reference letters where annexes are referenced to or mentioned.	Agreed
MHI PS	FR	Document-wide		ge	Most figures are blurred. Please use a vector format instead.	Replace all figures with a higher resolution version.	Agreed. Appears to be PDF conversion issue. De-

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							blurring to be checked when final PDF is generated.
DCEG	NO	2.4.2	1st paragraph 2.4.2 (bottom page 6)	Ed	List with why attribute values may be considered mandatory should have bullet points.	Insert bullet point for list.	Agreed
DCEG	rmm	2.4.8.3		ed	Add information on what must be coded in the "language" attribute. Specification of this attribute in the registry and therefore the FC says ISO 639-2/T 3-letter codes	Added information on what must be encoded in attribute "language" and where a list of codes can be found.	New material in clause 2.4.8.3 (Languages).
DCEG	rmm	2.4.10.4		ed	Clarification to NonStandardWorkingDay	Added "information" attribute to example and modified related text in preceding paragraph accordingly. Clarify how to indicate closure.	New material in 2.4.10.4 (Schedules), see redline.
DCEG	NO	2.5.5.4	2.5.5.4	Ed	It is referred in the section to DCEG. It's somewhat confusing with a reference inside the document to which it refers. Can it rather be referred to a specific section or chapter within the DCEG?	Consider finetuning the reference to a more specific section of the DCEG.	Agreed
DCEG	rmm	2.6.3	Para. 3	ed	Harmonize policy for changing data coverage for base datasets with S-101.	Update cannot change data coverage, New Edition can.	Done
DCEG	NO	2.6.8	3rd section	Ed	Typing error in first sentence ("in" is missing the letter i). ("Overlapping datasets are possible n the case…")	Correct error.	Agreed
DCEG	rmm	2.8.2	Para 1	ed	Geo features use scaleMinimum and scaleMaximum; DataCoverage features use minimumDisplayScale and maximumDisplayScale.	Correct reference in 1st para to scaleMin/Max. Add paragraph about min/max display scales.	Para 1 corrected. New paragraph added
DCEG	rmm	4.3, 4.4		ed	Harmonize DataCoverage with S-101.	Add maximumDisplayScale to schema. The optional information attribute used in S-101 is not	Done

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					used in S-131, nor does S-131 specify values for scales (instead it refers the reader to S-101).		
DCE G	rmm	5.2 6.3, 6.6, 6.7, 6.8, 6.10, 6.12, 6.13, 6.14, 6.16, 6.17 7.3 9.3		ed	Additional remarks about encoding 5.2 FeatureType 6.3 AnchorageArea 6.6 DockArea 6.7 DumpingGround 6.8 HarbourArea 6.10 HarbourBasin 6.12 OuterLimit 6.13 PilotBoardingPlace 6.14 SeaplaneLandingArea 6.16 TurningBasin 6.17 WaterwayArea 7.3 FloatingDock 9.3 AbstractRxN	(as on left)	New material in 5.2, 6.3.3
DCE G	NO	6.1	6.1, list w/bullet points	Ed	The list with common port sections is followed by (NP100). This term is not listed in the abbrivations in the PS (the DCEG abbrivations points to the abbrivations in the PS).	Include NP100 in abbreviations in PS.	Agreed
DCE G	rmm	10.1 10.1.1		ed	Additional guidance about encoding regulations, recommendations, etc.	(as at left)	New material in 10.1 and 10.1.1 (see redline)
DCE G	rmm	11.1 11.4		ed	Additional guidance about contact information	New clause 11.1.2 information about encoding names in ContactDetails in 11.4	New material in 11.1 and 11.4(see redline)
DCE G	rmm	12		ed	Exensive new material about Applicability, its relationships, and suggested encoding practice	(as on left)	New clauses 12.1, 12.2, 12.3, 12.4 and additional text in 12.5 (see redline)

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DCEG	rmm	13.1		ed	Additional guidance about encoding of Entrance information type	Guidance about encoding of the various mark attributes and also *markedBy*.	New material in table in 13.1
DCEG	rmm	14.1		ed	Constraints about associations and attributes of SpatialQuality should be added to DCEG	Added constraints about association to Surface and vertical uncertainty when associated to curves.	New material in 14.1 (see redline)
DCEG	rmm	18.2 18.3 18.4 18.6 18.8 18.9 18.10		ed	18.2 Cargo Services Description 18.3 Construction Information 18.4 Contact address 18.6 Facilities Layout Description 18.8 Fixed date range 18.9 Frequency pair 18.10 General Harbour Information	Additional guidance added	New material (see redline)
DCEG	rmm	Feature tables		ed	No feedback received on preferences between feature tables and S-127-style UML diagrams.	Since there has been no feedback about this, Edition 1.0.0 will use the tables generated by the IHO S-100 toolkit without embedding UML diagrams of attributes and associations in the feature tables for individual feature and info types. Clause 3 in the DCEG describing the feature table format has been updated accordingly to remove material relating to diagrams in feature tables. A paragraph about diagrams in introductory clauses has been added later in Clause 3.	Use of diagrams in feature tables should be discussed for Edition 1.1
FC	SJC	frequencyShor eStationReceiv es & frequencyShor eStationTrans mits		te	Examples in the remarks (4379.1 kHz becomes 043791; 13162.8 kHz becomes 131628.) are inconsistent with the unit of measure (Hz) specified in PS and FC.	Correct the remarks/examples. IHO GI Registry (source of the FC?) has the same error. In S-101 DCEG, the example is "950000000 for a radio signal centred on 950 MHz", which is correct. However, S-101 FC also uses the examples in GI Registry.	Agreed. Remarks deleted in S-131 FC. Corrections to the GI registry TBD with registry manager
FC	SJC	uNLocationCo de		te	FC sets the stringLength 20 as the constraint of uNLocationCode. FC does not set constraints to portFacilityNumber, but includes remarks saying that it	Set the constraint of format accordingly, for both uNLocationCode and portFacilityNumber.	Constraint on length of uNLocationCode is in the GI registry. Will

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		portFacilityNu mber			"consists of a UN LOCODE with a 4-digit sufffix, seperated by a hyphen, for example USLAX-0001" According to https://service.unece.org/trade/locode/Service/LocodeColu mn.htm#LOCODE ,"a complete UN/LOCODE is a combination of a 2-character country code and a 3-character location code, e.g. BEANR is known as the city of Antwerp (ANR) which is located in Belgium (BE). For ease of reading, the country and location code elements are usually separated by a space. In actual use, this space could be suppressed."	Use 5-characters for the encoding of uNLocationCode (prefer not to separate the country and location code elements by a space, consistent with the UN LOCODE part of the portFacilityNumber) If it is decided to separate the country and location code elements of UN LOCODE by a space, then explicitly specify that in the DCEG and FC.	have to be taken up there. Postponed to S-131 1.1.
FC	rmm vice BvS	Enumeration s methodOfSe curing, categoryOfB erthLocation	Convention al mooring	te	Definition should be updated. Rationale: In line with definition for anchor berth of IHO In line with definition for Multi Buoy Mooring of OCIMF	Proposed definition: A designated facility where a vessel may moor, usually by a combination of the mooring buoys and the ship's anchors	Postponed to Edition 1.1
FC	rmm vice BvS	Conventional mooring		te	Multi Buoy Mooring (MBM) Berth Proposal to IMO and IHO: A designated facility where a vessel may moor, usually by a combination of the mooring buoys and the ship's anchors Rationale: In line with definition for anchor berth of IHO In line with definition for Multi Buoy Mooring of OCIMF Location: The berth's extent is between the positions of the mooring buoys (this should also allow for the length of mooring lines)	The intent of the ITPCO proposal appears to be that this should be a feature. In S-131 it is one of the values of the categoryOfBerthLocation attribute of the Berth feature. Is reconciliation of ITPCO and S-131 perspectives needed?	Postponed to Edition 1.1.

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FC	rmm vice BvS	Berth		te	Definition should be revised to: A place, generally named or numbered, where a vessel may moor or anchor.	Revised definition has been endorsed by the S-101 DCEG team and submitted to the GI registry.	Awaiting DCB decision. If accepted by the IHO GI registry, the next edition of S-131 should apply the change.
FC	rmm vice BvS	Fender Berth		te	ITPCO intend to propose "Fender Berth" as a feature. Proposal to IMO and IHO: (see next column) Rationale: In line with definition for anchor berth of IHO In line with definition for Multi Buoy Mooring of OCIMF Location: The berth's extent is between its two extremities measured in a straight line, indicated by A and B, orientation is not important. The line represents the fender line, being the position of the ship's side when alongside.	Proposed definition: A designated physical location of berth infrastructure where a vessel may moor, defined by the fender line, which is the position of the vessel when moored.	Postponed to S-101 Edition 1.1. Discussion with the S-101 project team may also be needed.
FC	rmm	Codelist ActionOrActi vity	berthing		Current definition of "berthing" in registry is a "A signal station for the control of vessels when berthing." which is wrong for the activity of berthing. NIPWG defined this as an activity: "Attaching a vessel to a wharf or jetty." but that definition has either not been made it into the registry or has been overridden. Defining the term "berthing" as a signal station is inaccurate; that should be a qualified term like "berthingSignal", etc.	Update definition in registry or add the activity definition as a alternate sense of the term "berthing". TBD with Registry Manager.	S-131 FC 1.0 will use the "activity definition" and accept the discrepancy with the GI registry. An update to the current registry definition or an alternative solution should be applied in S-131 Ed. 1.1.

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FC	rmm	ContactAddr ess	deliveryPoin t	te	Multiplicity should be ordered to allow proper ordering of delivery information.	Set multiplicity to ordered. Add encoding instruction in DCEG about using deliveryPoint to encode delivery information that is normally in multiple lines, such as "Attention: …".	Agreed
FC	rmm	FeatureType	rxNCode	te	rxNCode is not relevant to geographic features. If a feature is dedicated to a particular activity or subject, that should be indicated by a category attribute or creating a named feature class. If a regulation (or restriction, or recommendation) is to be attached to a feature instance, that should be done using an associated Regulations (Restrictions, Recommendations) information type.	Remove rxNCode from FeatureType.	Postponed to Edition 1.1
FC	rmm	vesselsMeas urements		ed	Current registry definition and remarks: Definition: Values, discovered by measuring, that correspond to vessels characteristics. Remarks: VSLVAL has been set to REAL assuming 3 decimal places, i.e.: 10.000 m. That would give the result: 1. VSLMSM [VSLCAR=4 (draught); VSLVAL=10.5; VSLUNT=1 (m); COMPOP=2 (>=)] the regulation applies for vsl of 10.5 m draught and above. 2. VSLMSM [VSLCAR=9 (deadweight); VSLVAL=2000; VSLUNT=4 (ton); COMPOP=5 (=)] the regulation applies for vsl of exactly 2000 DWT. 3. VSLMSM [VSLCAR=1 (L.O.A.); VSLVAL=150; VSLUNT=1 (m); COMPOP=3 (<)] the regulation applies for vsl of less than 150 m length. Using a further example: 4. [VSLMSM [VSLCAR=1 (L.O.A.); VSLVAL=50; VSLUNT=1 (m); COMPOP=1 (>)]], CATVSL=3 (tanker), LOGCON=1 (and), LIMTYP=2 (required); associated to a PILBOP object: tankers with LOA > 50.0 m must use the PILBOP. In an example for tankers between 50 and 100 m in length,	(1) Revise Remarks to: Combines (i) specifications of vessels' measurable characteristics (length, beam, tonnages, etc.), (ii) limit values for the specified characteristics (with units), (iii) arithmetical comparison operators (greater than, etc.), and (iv) logical operators (AND/OR) to define a subset of vessels characterized by the specified ranges. For example, the combination (draught, 10.5, metres, greaterThan) describes "vessels with draught greater than 10.5 metres". (2) Revise name and definition to align closer with actual use: Name: Vessel Measurements Specification Definition: Combinations of values of measurable characteristics or dimensions of vessels, used to specify size and tonnage ranges.	(1) Revised Remarks have been proposed to the GI registry. (2) Revisions to the name and definition to be discussed in NIPWG before being proposed to the GI registry.

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					the coding is like this: 5. [VSLMSM [VSLCAR=1 (L.O.A.); VSLVAL=50; VSLUNT=1 (m); COMPOP=1 (>)], [VSLCAR=1 (L.O.A.); VSLVAL=100; VSLUNT=1 (m); COMPOP=3 (<)]], CATVSL=3 (tanker), LOGCON=1 (and), LIMTYP=2 (required). The remarks cannot be understood without more context.		
FC	rmm	vesselsChar acteristicsVal ue		ed	Current Remarks are hard to understand without context which is not available in the GI registry or in FCs. Examples: VSLVAL = 12.345 + VSLCAR = 4 (draught) = draught of 12.345 VSLUNT = 1 (m); VSLVAL = 12345 + VSLCAR = 11 (net tonnage) = net tonnage of 12345 VSLUNT = 7 (net ton (NT)); VSLVAL = 123.45 + VSLCAR = 1 (length overall) = length overall of 123.45 VSLUNT = 1 (m).	Revise Remarks to: Indicates range limits in expressions characterizing vessels by dimensions and tonnages. The unit of measure, characteristic, and comparison operator (greater, less, etc.) are encoded separately.	Revised Remarks have been proposed to the GI registry.
FC	rmm	FeatureType	textContent	te	Multiplicity is 0..1 but application schema has 0..*	Change multiplicity to 0..* in FC. Add encoding remark(s) in DCEG explaining when multiple instances may be encoded.	Done
FC	rmm	FeatureType	association to TextPlacem ent	te	Correct reversed roles - the "positions" role should be in the feature binding in FeatureType, "identifies" in TextPlacement cf. PS Fig. 4.22 (now 4.23). Also, a TextPlacement can reference one feature and a feature can reference 0 or 1 TextPlacement	(As on left)	Done
FC	rmm	HarbourArea Section	feature bindings	te	HarbourAreaSection has layoutUnit associations to Berth, Terminal, and WaterwayArea, but lacks corresponding associations to other features to which it is related by the LayoutDivision association (PS Figure 4.19 (now 4.20).	Add missing feature bindings to HarbourAreaSection	Added

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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)	
Component (PS, FC, etc.)	CO[1]	Clause No./ Subclause No./ Annex / Type name (e.g. 3.1, Berth)	Paragraph/ Figure/Table/ Note/Attribut e/Element/Va lue (e.g. Table 1, fileName)	Type of com- ment[2]	Comment (justification for change) by the CO[3]	Proposed change by the CO	Secretariat observations on each comment submitted
FC	rmm	HarbourFacili ty		te	The new HarbourFacility feature added as a substitute for StraddleCarrier and ShipLift does not have the LocationHours association as its siblings Gridiron, etc.	Add LocationHours association to HarbourFacility Update UML, PS, schema, & DCEG to conform.	Done
FC	rmm	TextPlaceme nt		te	Harmonize with S-101PT9 specification, which removed the attribute textJustification	As on left	Done
XSD	FI	InclusionTyp e, PermissionT ype			gml:ReferenceType should be extended as explained in S-100 document Part 10b-8.4.1.		Agreed
XSD	FI	theApplicable RxN roles			I cannot get my head around the thought that it should not be "theApplicableRxN" that has the "permissionType", but instead the "permission" association which is pointing to an "Applicability"- object.	My interpretation of the PermissionType; <permission xlink:href="#fiho.s100.S131.Applicability.0013" xlink:arcrole="http://www.iho.int/S131/gml/1.0.0/rol es/permission"> <PermissionType> <categoryOfRelationship code="3">Permitted</categoryOfRelationship> </PermissionType> </permission>	Agreed. S-100 clarification proposal has been submitted. [Accepted at WG7]

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