Draft DCEG 0.0.1 Review Comments Form (Please provide responses to julia.powell@noaa.gov and jeff.wootton@defence.gov.au by 08 November 2013.)

Date: 26 September 2013	Document: **Draft DCEG Edition 0.0.1** **TSMAD27-4.5.1A**

1	2	(3)	4	5	(6)	(7)	
Component	CO[1]	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com-ment[2]	Comment (justification for change) by the CO[3]	Proposed change by the CO	Secretariat observations on each comment submitted
	FR	1.3.1	Aggregation	ge	Current wording: **"Aggregation:** special form of **association** that specifies a whole-part relationship between the aggregate (whole) and a component (see composition)"	Remove "(see composition)" as no explanation for "component" or "Composition" exists in the document.	
	FR	1.3.1	curve	ge	FR thinks a curve has a unique boundary	Replace "A boundary of a curve" by "The boundary of a curve"	
	FR	1.3.1	Geometric primitive	ed	Homogeneity of the document (points and curves are in bold)	In the NOTE: Write "**surfaces**" in bold characters	
	FR	1.3.1	maximum display scale	ed		Replace "the larger" by "the largest"	
	FR	1.3.1	minimum display scale	ed		Replace "the smaller" by "the smallest"	
	FR	2.1	3rd §	ed	Homogeneity of the document	Replace "**Cartographic Feature type**" by "**Cartographic feature type**"	
	FR	2.1.1		te	Current wording: **"**If the true number of features is not known, the text "*more than one*" should be encoded using **information** (**text**)."	Propose to create a boolean sub-attribute of **multiplicity of features** to indicate that there multiple features exist (when the true number is unknown as well as it is known).	
	FR	2.1.1		te	Current wording: **"**For the encoding of multiple, identical lights using the attribute **multiplicity of lights**, see table in clause X.X." Why keeping this specific attribute for only Light features? **multiplicity of feature** could also be used here	Propose removing **multiplicity of lights** from S101, and using **multiplicity of features** in any cases Propose writing **multiplicity of features** (to be consistent with **multiplicity of lights**)	
1	JP	for example 2.1, 2.5		ge	There are two different words which have the same meaning, "dataset" (in 2.5) and "data set" (in 2.1).	to use the only one of them.	

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2	JP	2.2		te	I withdraw the proposal to add "C" to Caution Area because there is an alternative method in 16.10.	nothing	
3	JP	2.2		te	Land Area has primitive "C", but Land Region doesn't.	to add "C" to Land Region.	
	FR	2.2	2nd §	ge	A spatial value may correspond to various instances	Each spatial value must be referenced by at least one feature instance	
2	US	2.2	2.1	ed	Would HOs chart a Coastguard Station has a surface if the ENC was of a large enough scale (should this be done by charting the buildings with a function)	Add surface to allowable geometric primitives for Coastguard station.	
2	US	2.2	2.1	te	Should line be allowed for Quality of Non-Bathymetric Data. This would be the way to express the orientation uncertainly on the nav line or rec track.	Add Line to the allowable geometric for Quality of Non-Bathymetric Data	
2	US	2.2	2.1	ed	In the current UML diagram for S-101 Data Quality curve is not allow for Quality of Survey. It has been discussed that curves should be added to the diagram. (Passage soundings)	Remove curve form table for Quality or Survey or discuss adding it to the UML diagram for Quality of Data	
	FR	2.4	2nd §	ed		Change for "Within this document, the allowable attributes are included"	
	FR	2.4.1	Entire document	ed	Homogeneity of the document	Replace all "sub attribute" by "sub-attribute"	
4	JP	2.4.2	TI	te	The latest version of ISO 8601 is 2004.	to change to ISO 8601:2004	
5	JP	2.4.2	TI	te	Example descriptions don't indicate whether Geneva is earlier or later than UTC and whether New York is earlier or later than UTC.	to derive a new description	
	FR	2.4.3	NOTE 3	ed		"… for any feature… that has more than one…"	

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	FR	2.4.3	table	te	**Category of coverage** no longer exists in S101	For feature **Data coverage**, amend mandatory attribute **Category of coverage** for **Maximum display scale** and **Minimum display scale**.	
	FR	2.4.4	1st §	ed	A mandatory attribute must be populated	Change for: "…the attribute must be populated…"	
	FR	2.4.5		te	Add the attribute **In the water** in this paragraph, as being a portrayal attribute. .	Propose adding the following general statement: **In the water** - this Boolean must be set to *True* to indicate that the feature, located in or over navigable water, is to be included in the ECDIS Base Display. And remove all similar sentences all along the document.	
	FR	2.4.6		te		Add a sentence to explain that different ways to encode textual information : Using the attributes **information** or **textual description**, either on the feature itself or on the information type **Information** associated to the feature**.**	
	FR	2.4.6		te	The limitation for the sub-attribute **Text** to 300 characters should not be still useful in S101. This limitation comes from an ECDIS problem (pick report) which should be fixed in S101. See the minutes of TSMAD 25 (paper 4.6.3) and TSMAD 26 (ongoing action) *4.6.3 Auxiliary Files and S-101* *TR reported that there are a number of complications and shortcomings with the current method including and managing text and picture files in ENCs. These shortcomings have resulted in a variety of*	If a limitation has to be maintained, I propose to increase the limitation to 500 characters, and to allow formatting characters.	

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					implementations between end user systems and it was therefore proposed that for S-101, the content of the TXT and TIF files should be embedded directly into the ISO8211 dataset file (as long ASCII characters and binary data). JP reported that this will substantially increase the dataset size and the size of the exchange set. HB proposed that an information type could be used for this for text files, and there would be no need to make changes to the 8211 encapsulation format. However for picture files there would be big implications for S-100, including changing the data model and the 8211 encoding. The proposal was not accepted in its present form. As this proposal was written by the chair of the DPSWG, it was decided that the TSMAD chair should request the originator of the paper (DPSWG chair) to rework the proposal and resubmit it to TSMAD 26 taking into account the comments above. RF offered to assist the DPSWG chair. (See action item 33)		
	FR	2.4.6		te	Current wording: "The exchange language for textual information should be English. The sub attribute **language** must be populated with an appropriate value to indicate the language used."	As there are several English (old English, modern English, …) listed in ISO 639-3, I propose adding a statement to indicate in this clause that the value "eng" is the good one to be used for English.	
2	US	2.4.7	Spatial attribute types	te	categoryOfTemporalVariation is an attribute in the informaltionType Spatial Quality, It is also an attribute on Quality of Bathymetric data. Is this attribute spatial in nature?		
	FR	2.5.2		ge	No text for this paragraph?	Add some text or delete 2.5.2	
	FR	2.5.4		te	Current wording: "Dataset attributes contain metadata that apply to the whole dataset. Some	The wording in this clause should be reviewed to be clearer for encoders.	

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					attributes have designated ISO 8211 encoding subfields; other attributes use the ATTR subfield. See table below for details." **Which table is it?**		
	FR	2.5.8	Last §	ed		Change for: "Feature Object Identifiers" (delete ')	
2	US	2.5.11	5	ed	May need to say that using a Land Region for a group of islands with the same name will result in the Land Region covering areas of water and that this is okay.		
	FR	2.5.11	Last §	te	At small scales, point geometry is preferable for many feature instances.	Propose to amend for: "In all instances, if the exact extent of the feature to be named is known, and if the scale is adapted, a surface feature must be created."	
	FR	2.5.11.1 Name placement		te	Current wording: "The text attribute value determines which text attribute if more than one are present."	First comment: Is there another name than **Feature name** which may be concerned? Second comment: Propose adding a figure (either in this clause or in clause 3.10) to explain how the attribute **flip bearing** works.	
	FR	2.6	Real World	ed		Change for: "Example of real world instance …"	
	FR	3		te	Current wording: "These meta features are in the following list:"	To make it clearer, amend this wording for : These mandatory meta features are in the following list:	
	FR	3	Data Coverage	ge	In the DCEG, there is no explanation of what the "Skin of the Earth" is. It may be not obvious for all readers.	Add a definition of "Skin of the Earth" in the DCEG, or refer to an external definition (ENC Specifications?)	
	HA	3.1	Text Attribute		Text placement object: Perhaps instead of a 'Text Attribute' the placement could be for a 'class' of a	Text attribute doesn't seem to be applicable in many cases.	

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					label similar to CSS. We could define a set of text classes applicable to a given product or just specify that the portrayal needs to be able to match the class. Some text labels are not just an echo of a single text attribute. A buoy name is prefixed with 'By'. A light label is made up from characteristics and signal attributes which are not textual attributes. So if the text placement object could specify 'class' names such as 'buoyName' or 'lightCharacteristics', then the portrayal could look for text placements associated with these 'classes' of text. Sanity check is that it may be hard to find examples of cases where some text related to a feature would be placed separate from other text for the same feature. The intent of this text placement was to get text out of channels etc so do we need to identify what text, basically any text shown for the given feature should be placed within or around the centre point defined by the text placement. Either remove 'Text attribute' attribute or replace it with 'Text class'.		
	FR	3.3.1	Third paragraph And Figure	te	In areas where local buoyage directions apply, **Navigational System of Marks** features may overlap **Local Direction of Buoyage** features (see clause X.X) (see Figure below). - First comment: The verb "may" is not correct, as when a local buoyage direction applies, these two features **always** overlap. - Second comment: The figure is relating to local buoyage direction, so keeping it only in clause 3.4.1 is enough.	As the direction of buoyage is now encoded using a specific feature, I propose removing this wording and the figure. I also propose adding a following Remark: If it is required to encode a local direction of buoyage, it must be done using the feature **Local Direction of Buoyage** (see clause X.X). Explanation given in clause 3.4.1 is enough.	

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3	US	3.6.1	3	te	Should any object with a water level effect encoded be added to this list of objects that need to be split by Sounding Datum. For example Shoreline construction with a Water level effect of covers and uncovers should be split at the boundary of the Sounding Datum object.	Add a statment about splitting any object with a water level effect.	
6	JP	3.8		te	An attribute "Survey authority" allows only English.	to add "Language" and "Name "to "Survey authority"	
7	JP	3.9		te	An attribute "Update description" allows only English.	to add "Language" and "Name "to "Update description"	
	FR	3.9		ed	Where information has been deleted from **and** ENC the **Update Information** feature	Amend for "from an ENC…"	
	HA	3.9	Attributes		Add an additional attribute to Update information to provide a summary display/title of the update. E.g. New rock in Barnicle bay S-101 Attribute Update title TE 1,1 Remarks: a short, one line, description or summary of the update	When browsing/previewing or selecting these update objects it is nice to see a short description before going deeper into the details.	
	FR	3.10	IHO definition	te	IHO Definition: **TEXT PLACEMENT**. The Update information Feature is used to represent a change to the information shown.	Change the definition.	
	FR	3.10	Table - Raw: text attribute	te	See above comment relating to 2.5.11.1	Is there another name than **Feature name** which may be concerned by the text placement? Is this attribute useful? if no, remove it. If considered useful, this attribute should be mandatory (multiplicity 1,1)	

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	FR	3.10	Remarks	te	Add a remark to indicate that the geometry (point) where the feature text placement has been encoded is the position used by the ECDIS to place the text (the point location of the centre of the text string). See 2.5.11.1		
	FR	4.1	Table - Raw: scale minimum	te	Comment : SCAMAX is not an allowable attribute for the feature Magnetic variation	Remove : scale minimum > scale maximum	
	2J	4.1			Feature: 'Magnetic Variation' Attribute: 'Value of annual change in magnetic variation' (VALACM), 'Value of magnetic variation'(VALMAG); Allowable Encoding Value: "+/- **decimal minutes.** *Positive (unsigned) value indicates easterly. Negative value indicates westerly*"	Not clear what "**decimal minutes**"? mean. Is it units of measure or resolution of attributes values. If it is the first it contradicts of Attributes description in the clause 24.161 and 24.163 correspondingly. Suggest removing statement (**+/- decimal minutes**)	
	2J	4.2			Feature: 'Local Magnetic Anomaly' Attributes: 'Magnetic anomaly value maximum' (VALLMA), 'Magnetic anomaly value minimum'; Allowable Encoding Value: *anomaly value maximum < anomaly value minimum* (+/- **decimal degrees)**	Suggest removing statement **(+/- decimal degrees).** VALLMA attribute description gives units as minutes (')	

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5	US	5.2		te	Is there such a thing as watched or un-watched Ice?	Remove un-watched and watched from Statues	
	FR	5.3.1	First paragrah	te	The feature Dock Area is also concerned by this rule and must be added. Reference clause 8.18.1 (second remark) and 11.7.4. (see also my comment for § 8.6.1 below)	Amend the wording to read: "The exception to this general rule is when a lake, river, canal, dock area or basin is not navigable at the maximum display scale for the ENC data, in which case the boundary of the lake, river, canal, dock area or basin must not be encoded as **Coastline** or **Shoreline Construction** as the boundary of these specific areas (**Lake**, **River**, **Canal, Dock Area, Lock Basin**) create the portrayal of the bank or shoreline."	
	FR	5.6 River 5.9 Lake 8.8 Canal 8.12 Dock area 8.20 Lock 11.7.4		te	**Lake**, **River**, **Canal**, **Lock Basin** and **Dock area** should be Group 1 features. This will avoid creating Unsurveyed Area or Land Area underneath. These two features have not been designed for this use. This will also avoid abnormal encoding, as point LNDARE within area LNDARE when encoding an islet situated in a river, or a jetty in a LNDARE.	Add **Lake**, **River**, **Canal**, **Lock Basin** and **Dock area** in the list of Group 1 features.	
	FR	6.2 Building single		te	At SHOM we think that something is missing to correctly describe the positioning capability using Buildings. For this characteristic, we consider that a building (e.g a house) may be encoded on three different levels, but only the attribute CONVIS is currently available to differentiate these 3 kinds of buildings : 1 - A common building, which has been encoded, sometimes arbitrarily, to generally show that the place is a settlement area and	Propose to add a complex attribute **Positioning** and a Boolean attribute **Positioning capability** to indicate that a building can be used for positioning or not. Complex attribute **Positioning** (0,1) simple sub-attr. **Positioning capability (**Bo) (0,1) simple sub-attr. **Visually Conspicuous (**Bo) (0,1)	

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					cannot be used for positioning. In this case, at SHOM, we do not encode CONVIS. 2 - A building which can be used as a landmark, but cannot be considered as visually conspicuous at the compilation scale. In this case, we encode CONVIS = 2 3 - A building which can be used as a landmark and is considered as visually conspicuous at the compilation scale. In this case, we encode CONVIS = 1. The problem is that the ECDIS display does not allow the mariner to distinguish the first and the second situations.	Proposed S101 encoding : Case 1 : **Positioning** not encoded (or encoded with the value *False* for both sub-attributes) Case 2 : **Positioning capability** = *true* and **Visually Conspicuous =** *false* Case 3 : **Positioning capability** = *true* and **Visually Conspicuous =** *true* The portrayal should be adapted to display differently these three levels. This new attribute positioning can also apply to other features which are concerned by the same issue (e.g silo/tank, crane).	
	FR	6.5 Bridge 6.6 Span fixed 6.7 Span opening 6.11 Pylon/bridge support	tables	te		Propose to indicate the association and the role "consist of" at the bottom of the tables of the features which may be components of a Bridge. To be consistent with Associations Structure/equipment in tables relating to features Beacon ….and Buoy…	
	FR	7.1	table	te	Remove the column building shape which is useless. There is no value indicated in the table for this attribute.		
8	JP	7.2		te	The number of floating constructions such as a floating tower is increasing.	to add an attribute "Water level effect" with 7 (floating)	
	FR	7.5.1	Third remark	te	Current wording: **"Production/Storage Area** features of type point and having the mandatory	Is this work-around still valid in S101?	

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					attribute **category of production area** = empty (null) value do not display in ECDIS. Encoders wishing to display these features in ECDIS must consider alternate encoding options (e.g. using **Building**, **Landmark**, **obstruction**, or populating a value for **category of production area** from the enumerate list)."	This portrayal issue should be fixed in S101.	
	FR	8.4.1	Second remarks	te	The value **category of pile** = 5 (piling), sometimes termed "row of piles" or "sheet piling", should only be used for **Pile** of type curve. Point primitive may be used for smaller maximum display scale ENC data.	Complete the rule to state that, in addition, the geometry of type curve should only be used to encode features **Pile** with **category of pile** = 5 (piling).	
	FR	8.4.1	Remarks	te	The new attribute value **Category of pile** = 6 (area of piles) has been added, and it is the only reason why the area geometry is now allowable for the feature **Pile**.	Add a new remark to explain the use of this attribute value and to state that the area geometry is only used for this case (similar than the above remark for piling)	
	FR	8.6.1 (see 5.3.1 above)	Last sentence	te	Dock Area is missing in this rule. Reference clause 8.18.1 (second remark) and 11.7.4.	Amend the sentence to read: The exception to this general rule is when a lake, river, canal, dock area or basin is not navigable at the maximum display scale for the ENC data, in which case the boundary of the lake, river, canal, dock area or basin must not be encoded as **Coastline** or **Shoreline Construction**	
	2J	8.14			Feature: 'Mooring facility' Attribute: TOPMAR is missing	Mooring facilities with CATMOR;7 Mooring Buoy need the TOMAR attribute. Suggest adding.	
	FR	8.18.1	First remark	te	Current wording : "If the dock is navigable at the maximum display scale of the ENC data, it must be encoded using the features **Depth Area** or **Dredged Area** (see clause X.X), …"	Add **Unsurveyed Area** to read : : "If the dock is navigable at the maximum display scale of the ENC data, it must be encoded using the features **Depth Area, Dredged Area or**	

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1	2	(3)	4	5	(6)	(7)	
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					Not consistent with 11.7.4 : " Where these areas are navigable at the maximum display scale for the ENC data, they must be encoded using the Skin of the Earth features **Depth Area**, **Dredged Area** or **Unsurveyed Area**,…"	**Unsurveyed Area** (see clause X.X), …"	
11	US	11.4.1	Remark 5	te	category of zone of confidence in data (CATZOC) is no long an attribute in Quality of Bathymetric Data	Remove the term "category of zone of confidence in data" from the remark.	
11	US	11.5.1	Remark 6	te	If it is accepted that Quality of Bathymetric Data objects can overlap then Swept areas should be able to overplay. An area that has been swept to different depths by different techniques, and of differing Quality.	Change remark to "**Swept Area** features may overlap"	
	FR	11.7.2	Figure	te	The figure does not show the normal encoding.	For the record : Modify the figure to create a new Depth area (10/20) above the 10 m depth contour)	
	FR	11.7.3	Figure	te	The figure does not show the normal encoding.	For the record : Modify the figure to create a new Depth area (8/10) between the 8 metre depth contour and the 10 metre depth contour)	
	FR	11.6	figure	ed	Sounding value 2 within an intertidal rocky area	Amend value *2* for *2*	
	FR	11.7.4	Title	ed	1 - See comment above to add **Lake**, **River**, **Canal**, **Lock Basin** and **Dock area** in the list of Group 1 features. 2 - The word "locks" is missing in the title.	Amend the title of this clause for: **Rivers, canals, lakes, basins, locks**	
	FR	11.7.5		te	Areas of continual change : Add a statement to explain the use of the attribute value Category of temporal variation = 3 (likely to change) on the feature Quality of Bathymetric Data.	For the record: Need to await DQWG results.	

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	FR	11.8 Depth-nobottom found	Table	te	The features Depth - no bottom found are generally situated in areas investigated using lead-line.	Add Technique of sounding measurement = 5 (found by lead-line) in the list of allowable values.	
	FR	11.9.1		te	Current wording : "Areas with little or no bathymetric survey information, and falling within a meta feature **Data Coverage** surface with attribute **category of coverage** = *1* (coverage available), must be encoded using the feature **Unsurveyed Area**." The attribute **category of coverage** no longer exists.	Amend to read : "Areas with little or no bathymetric survey information, must be encoded using the feature **Unsurveyed Area**."	
11	US	11.9.1.		te	Paragraph has the attribute **category of zone of confidence in data** in it. This is no longer valid	Remove **category of zone of confidence in data** and statement referring to new attributes in **Quality of Bathymetric Data**	
11	US	11.9.1.1		te	Paragraph has the attribute **category of zone of confidence in data** in it. This is no longer valid	Remove **category of zone of confidence in data** and statement referring to new attributes in **Quality of Bathymetric Data**	
11	US	11.9.2		te	Paragraph has the attribute **category of zone of confidence in data** in it. This is no longer valid	Remove **category of zone of confidence in data** and statement referring to new attributes in **Quality of Bathymetric Data**	
	FR	11.9.3		te		For the record : create meta-feature Minimal depiction area (Jeppesen action)	
	FR	13.6.1	Remark relating to FAD	te	Current wording : "Subsurface Fish Aggregating Devices (FAD) must be encoded as **Obstruction**, with **category of obstruction** = *13* (fish aggregating device (FAD)), unless the FAD is a vessel that has been deliberately sunk to form a fish haven, which should be encoded	1 - Amend this remark relating to FAD to read : If it is required to encode a ~~Subsurface~~ Fish Aggregating Device (FAD)), whether under water or floating, it must be done using **Obstruction**, with **category of obstruction** = *13* (fish aggregating device (FAD)).. If the FAD is marked by a string of coloured floats the feature	

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					as a **Wreck** feature (see clause X,X)." First comment: This is not consistent with clause 13.9.1 *(Fish aggregating devices (FAD), whether under water or floating, must be encoded, where required, as **Obstruction** features (see clause X.X).* Second comment: In my view, a FAD cannot be a fish haven. A FAD is a device to concentrate fishes so that they can easily be fished, whereas a fish haven is a device to attract fishes to protect them, mainly for the restocking.	**Obstruction** should be populated with **category of obstruction** = *19* (buoyed). A buoy marking a FAD must be encoded as a **Buoy Special Purpose/General** feature (see clause X.X) 2 - Add the following new remark relating to fish haven encoding (and remove clause 13.10.2 - see below) : If it is required to encode a Fish haven, it must be done using **Obstruction**, with **category of obstruction** = *5* (fish haven), unless the fish haven is a vessel that has been deliberately sunk, which should be encoded as a **Wreck** feature (see clause X,X).	
	FR	13.10.2		te	A fish haven is not a Marine farm/culture feature.	Remove clause 13.10.2 which is not relating to the feature Marine farm/culture. Move the wording as a new remark (or a new clause) in §13.6.1 relating to obstructions (see comment above for §13.6.1)	
	FR	14.1.1	Third remark	te	Current wording : "Platforms may carry lights (see clause X.X), fog signals (see clause X.X), flare stacks (see clause X.X) and helicopter landing pad (see clause X.X). Where fitted, lights should be encoded as described in clauses X.X to X.X, with the **Offshore Platform** being used as the structure feature for the light equipment feature(s)."	1 - Amend the remark to read : Platforms may carry lights (see clause X.X), fog signals (see clause X.X), ~~flare stacks (see clause X.X)~~ and helicopter landing pad (see clause X.X). Where fitted, lights should be encoded as described in clauses X.X to X.X, with the **Offshore Platform** being used as the structure feature for the light equipment feature(s). 2 - Add the following new remark : If it is required to encode a flare stack carried by	

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					the platform, it must be done using the Boolean attribute **flare stack**.		
	FR	14.4 Cable area	table	te	Multiplicity for **Category of cable** should be 0,* , as both power and telecommunication cables may exist in a cable area.	Amend multiplicity for 0,*	
	FR	15.1.1 15.3 15.4.2 18.8.1 15.10.1 15.11.1 15.20.1 15.21.1 15.22.1 15.24.1 20.3		te		Remove acronyms C_AGGR and C_ASSO from the document and rewrite all the rules relating to feature associations to be in accordance with the S101 data model.	
	FR	15.3		te	Amend the legend DWRTPT in the south-west angle of the figure to read Traffic separation scheme boundary. In addition, replace all the S57 acronyms	For the record : A complete document diagram review has to be done.	
15	US	15.3,15.8 & 15.10		ed	Does a Feature Association need to be defined for TSS features, Two-way routes and Deep Water route?		
15	US	15.4		ed	Does a Feature Association need to be defined for measured distance system?		

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	FR	15.12	IHO definition	ed		Amend "routing" for "routeing" (in addition, correct all instances in the whole document)	
	FR	16.2.1	Second paragraph And table in clauses 16.16 and 16.25	te	In this case, the disputed area should be encoded with separate **Territorial Sea Area** and **Exclusive Economic Zone** features, with Boolean attribute **in dispute** set to *True.*and the mandatory attribute **nationality** populated with the country codes (conforming to ISO 3166) of the disputing states (see clause X.X).	1 - Remove full stop after the word True. 2 - As disputed areas must have the mandatory attribute **nationality** populated with the country codes of the two (or more) disputing states, the attribute **nationality** for **Territorial Sea Area** and **Exclusive Economic Zone** features must have a multiplicity of 1,*.	
16	US	16.8		ed	International boundaries that are encoded as Administration areas can be disputed	Add the attribute In dispute to feature	
16	US	16.10		ed	Should Caution areas be limited to surfaces, given that point caution areas would not set off any alarms and therefore be hard for the mariner to find. For reasons of safe navigation caution areas points should be encoded has small surfaces.		
9	JP	16.10	3 (Remarks)	ed	The subject is "Caution area" in this paragraph.	to change **information area** to **caution area**	
10	JP	16.11		te	An object "Information area" needs an attribute "Pictorial representation" for users.	to add "Pictorial representation" to "information area"	
11	JP	16.12		te	An object "Information" needs an attribute "Pictorial representation" for users	to add "Pictorial representation" to "information"	
16	US	16.13		ed	Contiguous Zones can be disputed	Add the attribute In dispute to feature	
	FR	16.16 Exclusive Economic	Table Remarks	te	See above (comment for clause 16.2.1)	1 - Amend multiplicity of attribute **nationality for** 1,* 2 - Add a new remark :	

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		Zone				For guidance regarding the encoding of linear maritime jurisdiction features, see clause X.X.	
12	JP	16.23		te	There is an oil barrier which is underwater, but is afloat if necessary in Japan.	to add an attribute "Water level effect" with 7 (floating)	
	FR	16.25 Territorial Sea Area	Table Remarks	te	See above (comment for clause 16.2.1)	1 - Amend multiplicity of attribute **nationality for 1,*** Add a new remark : 2 - For guidance regarding the encoding of linear maritime jurisdiction features, see clause X.X.	
	FR	16.27.1.4	First paragraph	ed	"Speed is often limited inside harbours in order to prevent wakes. If it is required to encode this restriction, it must be done using a **Restricted Area** feature, with the attribute **category of restricted area** = *24* (no wake area) or **restriction** = *13* (no wake)." Both attributes, **category of restricted area** = *24* (no wake area) and **restriction** = *13* (no wake), may also be encoded.	Amend the wording to read "…with the attribute **category of restricted area** = *24* (no wake area) **and/or** **restriction** = *13* (no wake)."	
	FR	16.27.1.5		te	"If it is required to encode a restricted anchoring area, it must be done using a **Restricted Area** feature, or using other features with the attribute **restriction** (see clause X.X), where **restriction** = *1* (anchoring prohibited), *2* (anchoring restricted) or *7* (entry prohibited)." Even if anchoring is logically prohibited in an area where entry is prohibited, the attribute value Restriction = 7 encodes a restriction which goes beyond.	Remove value restriction = 7 from this clause. May be a general remark could be added in 16.27.1, to indicate that when the attribute value **restriction** = *7* (entry prohibited) is populated, it is useless to encode any other obvious prohibitions or restrictions.	

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	FR	17.2	First paragraph	ed		Move the words "both a structure and an equipment feature." above the figure.	
	FR	17.2	Figure	te	.	Add a legend with an arrow in the figure to indicate that the Structure/equipment association is only the one that is shown in the rectangle	
	FR	17.2	Second paragraph, 2nd and 3rd sentences	te	Current wording: "…Alternatively, a **Pile** feature of type point or a **Beacon Special Purpose/General** feature may be encoded as the structure feature at the same position as the equipment features. When the nature of the base structure in the water is unknown, an ECDIS Base or Standard Display feature (see S-52, Annex A, clause 13.2), e.g. **Pile** feature of type point or a **Beacon Special Purpose/General** feature, must be encoded as the structure feature at the same position as the equipment features."	Remove the reference to S-52, and amend the wording to be in line with §18.1.8 (see below). "When a light is located in the water with no indication on the source of the structure feature, regardless of the height of the light, a **Pile** or **Beacon Special Purpose/General** feature should be encoded as the structure feature. This will ensure that a symbol will be shown on ECDIS systems when the light features are not displayed during daytime navigation."	
	FR	17.3.1	Third paragraph	te	Current wording: "…**Local Direction of Buoyage** features must not overlap, but in areas where local buoyage directions apply, **Local Direction of Buoyage** features may overlap **Navigational System of Marks** features (see Figure below)." For this situation, there is no other possibility, these two features always overlap. So remove "may".	Amend the wording to read : "…**Local Direction of Buoyage** features must not overlap, but in areas where local buoyage directions apply, **Local Direction of Buoyage** features always overlap **Navigational System of Marks** features (see Figure below)."	
	FR	17.3.1.1	tables	ed	Concerned raws : Special purpose beacon and Special purpose topmark.	Amend feature names "**Beacon, Special Purpose**" for "**Beacon, Special Purpose/general**".	
	FR	17.3.1.1	Tables	te	For Emergency wreck marking topmar, the feature to be used must be **Emergency wreck marking buoy.**	Amend **Beacon, Special Purpose** for **Emergency wreck marking buoy**	

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			Last raw				
	FR	18.1.3		te	This clause is empty (text missing).	Add rules to explain the encoding of colours of lights. For instance: Only features encoding alternating lights may have the attribute Colours populated with more than one values.	
	2J	18.2			Feature: 'Light all around', 'light sectored' Attribute: Colour; Multiplicity: 1,*	Suggest the multiplicity be '1,*(ordered)'. It is important for lights with alternating characteristic.	
	2J	18.2			Feature: 'Light all around' Attribute: Light visibility; Allowable Encoding Values: 1 – High intensity; 2 – Low intensity. Multiplicity: 0,*	Mistake in 'Multiplicity'. If there can be values 1 and 2 only, obviously they cannot be both, i.e. multiplicity=0,* is incorrect. It should be changed to the value '0,1'.	
	FR	18.2.1 All around lights	Table and Fourth remark	te	Current wording: "If it is required to encode the purpose of a marine spotlight, it must be done using **information**." There is an inconsistency between the definition of the feature Light All Around and the definition of spot light *(a powerful light **focused** so as to illuminate a small area).*	The attribute value Category of light = 11 (spotlight) is allowable for the feature Light All Around. Is it normal?	
	FR	18.2.1	Seventh	ed	Current wording:	Remove scale	

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		All around lights	remark		…using the complex attribute **feature name** on at least the largest ~~scale~~ maximum display scale ENC data.		
	2J	18.3, 18.3.1 & 26.10			Remark 18.3.1 contradicts feature model structure in 18.3. As per 18.3 Light Characteristic can only be encoded under complex attribute rhythm of light. There is no option to encode light characteristic under light sector as the text says. 26.10 also contradicts table 18.3 as per light characteristic attribute.	To be discussed by TSMAD27	
	HA	18.3	Attribute model of light sectored		Consider multiplicity of Rhythm of light and light sectors inside each Rhythm complex Rhythm group(s) 1,* Light characteristic 1,1 Signal group 0,* Signal period 0,1 Signal sequence 0,* Signal duration 1,1 Signal status 1,1 Light sector/direction 0,* Colour 1,* Directional character 0,1 Moire effect 0,1 Orientation 1,1 Orientation uncertainty 0,1 Orientation value 1,1	It is common that most light sectors share same Rhythm. Model to reduce duplication of content	

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					Light Visibility 0,* Sector limit 0,1 Sector limit one 1,1 Sector limit two 1,1 Value of nominal range 0,1 So a light with all sectors using same Rhythm would have only one Rhythm group with multiple sectors applicable to that Rhythm so the Signal info and light characterics would only be entered once. If there are different Rhythms then multiple Rhythm entries and each with the appropriate sector(s) defined.		
	HA	18.3	Directional Attribute		Boolean attribute Directional is redundant. If optional Directional Character complex attribute is populated then the sector is directional in nature.	Simplify model	
	2J	18.3			Feature: 'Light sectored' Attribute: Colour; Multiplicity: 1,*	Suggest the multiplicity be '1,*(ordered)'. It is important for lights with alternating characteristic.	
	FR	18.6 Light Sectored	Table	te	We may have to indicate that a sectored light is a leading light, a subsidiary light, a front light or an emergency light, or …, but **Category of light** is not allowable for the feature **Light Sectored**.	Propose to add Category of light as an allowable attribute for the feature Light Sectored. If agreed, keep the attribute value **Category of light =** 1 (directional function) as allowable, and remove the new Boolean attribute **Directional**.	

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	FR	19.5	Table of attributes	te	See below, comment for FAD in clause 19.5.1	Category of special purpose mark: Amend the meaning of value 59 (floating fish aggregating device (FAD) to read "~~floating~~ fish aggregating device (FAD) mark"	
	FR	19.5.1 Special purpose /general buoys	Remarks	te	For this feature there is a mix of special purpose buoys (e.g IALA) and buoys which cannot be encoded using another existing feature class. It should be possible for a software to easily differentiate which marks are special purpose marks an which ones are general marks. In order to improve the encoding and facilitate the testing, a previous proposal (Australia) proposed to split this feature in two different classes "Special Purpose buoys" and "General buoys". It was accepted.	As this previous accepted proposal seems to be ignored in S101, alternatively, I propose to impose that the encoder clearly indicates that the mark is, or is not, of a defined system (IALA or other). Two solutions seem to be possible : 1 - creating and using a new Boolean attribute **Special purpose mark (of a defined system)** 2 - using the existing attribute **Marks navigational – system of** If this second solution above is adopted, add the following new remark : - If the navigational aid is a general mark which does not conform to a defined system, it must be encoded with the attribute value **Marks navigational – system of** = 9 (no system).	
	FR	19.5.1 Special purpose /general buoys	Table Last raw (FAD)	te	See 13.9.1 (second remark): "Fish aggregating devices (FAD), whether under water or floating, must be encoded, where required, as **Obstruction** features (see clause X.X)." So, floating FAD must be encoded using the feature **Obstruction**, and only navigational buoys marking FAD must be encoded using Special purpose buoys.	First column (Feature): Amend the wording "Floating Fish Aggregating Device (FAD)" for "Fish Aggregating Device (FAD) mark". Sixth column (other attributes): Amend the wording " Subsurface FAD encoded as **Obstruction** (see clause x.x) " for " FAD encoded as **Obstruction** (see clause x.x) " . In the first raw, I propose to amend "Other	

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						attributes" for "Other attributes and comment".	
	FR	19.5.1 Special purpose /general buoys	Third remark	te	Amend this remark "Subsurface Fish Aggregating Devices (FAD) and Ocean Data Acquisition System (ODAS) equipment must be encoded, where required, using an **Obstruction** feature (see clause X.X)." to be consistent with the table in §19.5.1 and with §13.9.1 (second remark).	Amend the remark to read : "~~Subsurface~~ Fish Aggregating Devices (FAD) and subsurface Ocean Data Acquisition System (ODAS) equipment must be encoded, where required, using an **Obstruction** feature (see clause X.X)."	
	FR	19.5.1 Special purpose /general buoys	Fourth remark		Amend the second sentence of the remark "... A buoy intended to permanently mark a wreck as an danger must be encoded, where required, as a **Buoy Special Purpose/General** feature, with attribute **category of special purpose mark** = *60* (wreck mark)." Reason: A buoy intended to permanently mark a wreck may also be a cardinal, a lateral or an isolated danger buoy.	Amend the wording to read : "... A special purpose buoy intended to permanently mark a wreck as a danger must be encoded, where required, as a **Buoy Special Purpose/General** feature, with attribute **category of special purpose mark** = *60* (wreck mark)."	
	FR	19.6.1	Second remark	te		Amend the second remark to: "~~The **topmark** complex attribute should be populated with sub-attributes **topmark shape** = *8* (upright cross (St George's cross)) and **colour** = *6* (yellow).~~ An IALA compliant emergency wreck marking buoy topmark should be encoded using the **topmark** complex attribute populated with sub-attributes **topmark shape** = *8* (upright cross (St George's cross)) and **colour** = *6* (yellow)." And move this remark it to be the third one, just before the remark relating to the other equipments.	
19	US	19.7 & 2.2	Geometric	te	19.17.1 States: If it is required to encode radar reflectors on curve features (e.g.	Add Curve to Radar Reflector in section 2.2 and 19.7 or change '**must be done using the feature	

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Date: 26 September 2013	Document: **Draft DCEG Edition 0.0.1**
	TSMAD27-4.5.1A

1	2	(3)	4	5	(6)	(7)	
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			primitives		overhead cables), this must be done using the feature **Radar Reflector**. But curve is not an allowable type in section 2.2 or 19.7	**Radar Reflector** to **must be done by using the attribute Radar conspicuous**'.	
	FR	19.12.1 Special purpose /general buoys	Remarks	te	See my first comment above for § 19.5.1 For this feature there is a mix of special purpose beacons (e.g IALA) and beacons which cannot be encoded using an another existing feature class.	As the previous accepted proposal (from Australia) seems to be ignored in S101, alternatively, I propose to impose that the encoder clearly indicates that the mark is, or is not, of a defined system (IALA or other). Two solutions seem to be possible : 1 - creating and using a new Boolean attribute **Special purpose mark (of a defined system)** 2 - using the existing attribute **Marks navigational – system of** If this second solution above is adopted, add the following new remark : - If the navigational aid is a general mark which does not conform to a defined system, it must be encoded with the attribute value **Marks navigational – system of** = 9 (no system).	
	FR	19.12.2 Signs and notice boards	Remark	te	The following text does not relate to signs and notice boards: "**Isolated Danger**. A beacon marking a wreck for other purposes must be encoded, where required, as a **Beacon Special Purpose/General** feature, with attribute **category of special purpose mark** = *60* (wreck mark)."	Remove this text.	
	FR	19.14.1 Light floats	First remark	te		Amend the remark to: If it is required to encode a light float or a topmark	

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						that has more than one colour, the attributes **colour** and **colour pattern** must be encoded, according to the rules laid out in clause X.X.	
	FR	20.1 AIS	Table	te	See the IMO draft document NAV 59/WP.9/Rev.2 First comment: An AIS AtoN may be of a different type from those listed as allowable values for the attribute **AIS aid to navigation type**. This attribute is mandatory. Second comment: Only two categories (physical and virtual) are mentioned in the IMO document.	First proposal: I propose to extend the list of the attribute values to cover all possibilities, or to amend the multiplicity **1,1** of this attribute for **0,1** to make it optional. Second proposal: Remove the attribute value **Category of AIS aid to navigation** = 2 (synthetic)	
	FR	20.3 Radar beacon	Third remark Last sentence	te	Current wording: "The features making up the range system **must** be aggregated using the collection feature **C_AGGR** (see clause X.X)." This rule is not consistent with the rules given for other range systems (see §15.1.1, §15.24.1, §20.3.1) for which the aggregation is optional.	Amend the wording to: "The features making up the range system should be aggregated using the collection feature **C_AGGR** (see clause X.X)."	
20	US	20.3.1	Remark 3	te	Does a Feature Association need to be defined for measured Radar Transponder Beacon?		
21	US	21.3		ed	Would HOs chart a Coastguard Station has a surface if the ENC was of a large enough scale (should this be done by charting the buildings with a function) see above comment section 2.2		
21	US	21.3, 21.4, 21.5, 21.6 & 21.7		ed	Can the sub-attribute **Communication channel** stand-alone without the complex attribute **Communication information;** Does the clause in remarks explain this?	Add the complex attribute **Communication information** with the sub-attribute **Communication channel** only	
	FR	21.5.1		te	Current wording: "The nature of traffic signals varies from country to country and even from port to port. For charting	Make consistent the two lists, or remove the one which is given in § 21.5.1.	

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1 Component	2 CO[1]	(3) Clause No./ Subclause No./ Annex (e.g. 3.1)	4 Paragraph/ Figure/Table/ Note (e.g. Table 1)	5 Type of com-ment[2]	(6) Comment (justification for change) by the CO[3]	(7) Proposed change by the CO	Secretariat observations on each comment submitted
					purposes traffic signals can be considered to include: • Port entry and departure signals; • Lock, docking and berthing signals; • Bridge signals; • International traffic signals." The list given above is different from the allowable values of the attribute **Category of signal station traffic.**		
	FR	21.7.1	Fourth remark	te	Current wording : "If it is required to encode a covered terminal into which ships can go, this should be done using **Harbour Facility** with the purpose of the terminal defined by **category of harbour facility**. The roof of the terminal may be encoded using the attribute **nature of construction**, and the maximum height and/or draught of vessels able to use the terminal encoded using the complex attribute **information**. Alternatively, the roofed structure may be encoded using a **Building** feature (see clause X.X)." Nothing in the proposed encoding clearly indicates that the terminal is roofed.	Propose to create a Boolean attribute **Covered terminal** to clearly indicate that the terminal is roofed. This new attribute should be optional.	
13	JP	24.34	25)	te	Japan will provide a definition of Torii.	a gate located in a Shinto shrine	
	FR	24.138.1	Table	te	Feature **Depth contour**	Remove reference to S-52	
14	JP	24.154		te	There is no description about character limit.	to add description about character limit if it exists	
25	US	25.2		te	CATZOC is no longer an attribute	Remove this attribute	

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	2J				Feature: all features containing colourPattern Attribute: Colour Pattern; Multiplicity: 0,1	In S57 the attribute COLPAT is 'List' type. List type was intended for features with complex pattern. It is widespread the use of stripe patterns with border stripe. Suggest changing multiplicity to 1,*	
0	JP	4.3.3.2 (S-101 latest version)	Figure 2	ed	I'm sorry to treat S-101 at this time, but there is one editorial error.	to change <<Lights>> and Feature Type to Lights and <<Feature Type>>	

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