

S-101 comments and editorial observations

S-101 PT NOTE: This is entered into the record as items to be revisited when the FC is updated

Date: January 2016

Document: **S-101 XML Feature Catalogue 0.8.9 (FC)**

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 comment ²	Comment (justification for change) by the CO ³	Proposed change by the CO	Secretariat observations on each comment submitted
FC		LandArea / IslandGroup and other feature bindings	feature bindings	te	Role names reversed. Proposal has been made to update the DCEG. The FC will also need to be reviewed.	LandArea: role in IslandAggregation featureBinding should be consistsOf instead of componentOf IslandGroup: role in IslandAggregation featureBinding should be componentOf instead of consistsOf Other feature bindings should be reviewed for similar errors. Ref. earlier comments for PS and DCEG	
FC		Quality of Non-Bathymetric data		te	Not in FC. Still to be finalized?	depends on status	
FC		QualityOfBathy metricData	dataUnassessed	te	Superfluous attribute, It duplicates the value equal to '1' of the "categoryOfTemporalVariation" attribute.	reconcile	
FC		QualityOfBathy metricData		te	Technique of vertical measurement was missed in the QualityOfBathymetricData feature type.	add	
FC		QualityOfBathy metricData		te	QualityOfBathymetricData and QualityOfSurvey use "Full seafloor coverage" and there appear to be two simple attributes "fullSeafloorCoverage" and "fullSeafloorCoverageAchieved" in the FC 0.8.9	Reconcile "full sea floor coverage" vs. "full sea floor coverage achieved"	
FC		QualityOfSurvey		te	The attributes scaleValueMinimum/scaleValueMaximum of DCEG 3.10, 27.14 and 27.15 of QualityOfSurvey (M_SREL) are different from the attributes scaleMinimum/scaleMaximum in FC 0.8.8/9 "scale value maximum" / "scale maximum" are different attributes; as are "scale value minimum" / "scale minimum"	See DCEG 3.10, 26.135, 27.14, 27.15 DCEG must correspond to FC. The scaleMinimum / scaleMaximum definitions must be changed in FC and/or DCEG 3.10 27.14, 27.15 must be updated.	

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FC		featureUseType tags in IslandGroup, TrafficSeparationScheme, DeepWaterRoute		te	<p>'Text placement' is "aggregation" instead of "cartographic".</p> <p>The IslandGroup feature type has 'featureUseType' equal to "geographic". It looks strange as the Traffic Separation Scheme and Deep Water Route are "aggregation".</p> <p>The use type "aggregation" was removed from S-100 2.0.0 in 2015. The FC schemas were updated in September 2015, and a corrected example (0.8.10) with updated feature use was sent but it seems this FC uses a previous version.</p>	<p>Update the content of featureUseType tags in the FC to conform to use types permitted by the applicable edition of S-100.</p> <p>Verify that the correct version of the XML schemas for the FC is being used.</p>	
FC		Bridge IslandAggregation Archipelagic Sea Lane		te	<p>There are discrepancies between DCEG and FC concerning the feature binding and Feature associations. For example:</p> <ul style="list-style-type: none"> - most feature bindings have roleType value equal to association but the DCEG describes some of them as aggregation, see Feature type "Bridge" and the bindings by "bridgeAggregation"; -The role type of the Island Aggregation differs in FC 0.8.8/9 and DCEG 5.4, 5.5, 24.8. It is association in FC but aggregation in DCEG. -The feature binding from "Archipelagic Sea Lane" to "Caution Area" uses the association "aidsToNavigationAssociation" instead of "cautionAreaAssociation". <p>Multiplicity values of feature binding are not the same</p>	<p>Harmonize FC and DCEG. There must be the 'aggregation' role type in FC where it is appropriate.</p>	
FC		S100_FC_FeatureAssociations		te	Text association missing	Add the "Text Association" element	

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FC		SiloTank		te	The permittedValues list of the “condition” attribute contains the meaningless values 3(under reclamation) and 4(wingless) for Silo Tank. There are no such values in the DCEG clause 7.3	Remove 3 and 4 from The permittedValues list: <pre><S100FC:permittedValues> <S100FC:value>1</S100FC:value> <S100FC:value>2</S100FC:value> <S100FC:value>3</S100FC:value> <S100FC:value>4</S100FC:value> <S100FC:value>5</S100FC:value> </S100FC:permittedValues> <S100FC:attribute ref="condition"/></pre>	
FC		SiloTank		te	The permittedValues list of the “product” attribute includes 6(ore) for Silo/Tank. DCEG clause 7.3 does not.	Reconcile FC and DCEG.	
FC		Dyke		te	The “fixedDateRange” attribute has been omitted to the “Dyke” Feature type although it is present in the DCEG and S57.	Add the “fixedDateRange” attribute into the Dyke feature type.	
FC		Dry Dock	qualityOfSoundingMeasurement	te	FC contains the permitted value 5 for the attribute “qualityOfSoundingMeasurement”. It is absent in the DCEG 8.15 Value list in DCEG 26.124 (QUASOU) skips “5 (no bottom found at this depth)” altogether.	Reconcile FC and DCEG.	
FC		Dredged Area	restriction	te	FC contains the permitted value 9 for the attribute “restriction”. It is absent in the DCEG 11.4	Reconcile FC and DCEG. Presumably by removing value 9 from the permitted values in the FC, since 9 = “dredging prohibited”	
FC		UnderwaterAshRock	techniqueOfVerticalMeasurement	te	The permitted value 15 for the attribute “techniqueOfVerticalMeasurement” has been omitted. It is described in DCEG 13.4 and in 26.150	Reconcile FC and DCEG.	
FC		OffshoreWindTurbine	Remarks bullet “Structure Features”	te	DCEG should add the new feature type “OffshoreWindTurbine” to the list of structures that may also carry equipment features. Accordingly FC must have feature bindings for the feature type like other structures features.	Mark the OffshoreWindTurbine feature as a structure feature.	

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FC		15.16	Restriction	te	There is the Restriction attribute in the content of the Precautionary Area feature type. But it is omitted in the FC 0.8.9.	Reconcile FC and DCEG.	
FC		SeaPlaneLandingArea	restriction	te	FC has omitted the permitted value 28 : swimming prohibited of the Restriction attribute. It is present in the DCEG clause 16.5	Add the permitted value 28 into the list of the restriction attribute of the SeaPlaneLandingArea feature type.	
FC		SeaPlaneLandingArea	status	te	Missing permitted values: 3, 5, 8, 9 and 14; in the list of the Status attribute for the SeaPlaneLandingArea feature type in the FC_0.8.9. It looks like they have been omitted. They are present in the DCEG clause 16.5	Add the omitted values into the list of the Status attribute of the SeaPlaneLandingArea feature type.	
FC				te	The Dumping Ground feature type has been missed in the FC 0.8.8/9. That feature type is in the DCEG clause 16.6. Also the attribute categoryOfDumpingGround has been omitted too.	Add the missed feature type "DumpingGround". and the corresponding attribute "categoryOfDumpingGround"	
FC		categoryOfFenceWall 26.21		te	The name and Camel Case attribute CATFNC mustn't differ from Register values: "Category of fenceline" and "categoryOfFenceline" respectively. Now there are values: "Category of fence/wall" and "categoryOfFenceWall" in the FC_0.8.9 and DCEG 26.21 In the FC, the "<code>" element has an extra "l" between Fence and Wall. Camel case identifiers are limited to A-Z, a-z, 0-9, underscore. Note also that the camel case codes are mapped to XML tags and using "/" is intrinsically problematic since XML tags cannot use "/".	Reconcile FC, DCEG and IHO FCD Register.	
FC		CautionArea		te	The Status attribute has been missed in the Caution Area feature type. It is listed in the DCEG clause 16.10	Reconcile FC and DCEG.	
FC		16.26 Restricted Area	Restriction	te	There is no 14 (area to be avoided) in the list of permitted values for the "restriction" attribute of Restriction Area . There is no way to encode "area to be avoided" except as	Add the 14 value to the list of the permitted values for the "restriction" attribute.	

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					restriction = 14. Besides the DCEG clause 16.26.1.6 requires the encoding of such areas by use of the value 14.		
FC		BuoysIsolatedDanger	marksNavigationalSystemOf	te	There are three permitted values (1,2,9) only for the "marksNavigationalSystemOf" attribute in the "BuoyIsolatedDanger" feature type. Actually there must be the values 10 and 11 too according to the DCEG clause 19.3.	Add the 10 and 11 values to the list of the permitted values in FC for the "marksNavigationalSystemOf" attribute of the BuoyIsolatedDanger feature type	
FC		BeaconIsolatedDanger	condition	te	The permittedValues list of the "condition" attribute contains the meaningless values 3(under reclamation) and 4(wingless) for the "condition" attribute of BeaconIsolatedDanger feature type. DCEG clause 19.10 does not include them.	Remove 3 and 4 from The permittedValues list: <pre><S100FC:permittedValues> <S100FC:value>1</S100FC:value> <S100FC:value>2</S100FC:value> <S100FC:value>3</S100FC:value> <S100FC:value>4</S100FC:value> <S100FC:value>5</S100FC:value> </S100FC:permittedValues> <S100FC:attribute ref="condition"/></pre>	
FC		ref="SpatialQuality"		te	The "spatialQuality" information binding in feature types contradicts the statement of the Spec S101 clause 4.3.4.1.: <i>"Only points, multipoints and curves can be associated with spatial quality."</i>	Remove the "spatialQuality" information binding from the following feature types: Coastline, Wreck, Obstruction	
FC		S100_FC_FeatureAssociations		te	There is no description of the "updatedInformation" feature association in the section <S100_FC_FeatureAssociations/> it is in the DCEG clause 24.14	Add a description of the "updatedInformation" feature association in the FC	
FC		S100_FC_Roles		te	Roles "position", "providedBy" and "updates" are not defined in the section <S100_FC_Roles /> but they are defined in the DCEG clauses 25.4, 25.5, and 25.9	Add a description of the "position", "providedBy" and "updates" roles in the FC	
FC		26.26		te	The enumerated value 1 (gate in general) of CATGAT attribute is omitted in table 26.26 but it is present in the FC. It looks like it is superfluous in the FC since it was removed from S57 ed.3.0.	Reconcile IHO FCD register, FC and DCEG	

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FC		26.31		te	The enumerated value 16(moraine) of CATLND attribute has been omitted in the FC_0.8.9 and IHO FCD register They are present in the DCEG clause 26.31.	Reconcile IHO FCD register FC and DCEG	
FC		26.39		te	The enumerated value 7(foul ground) of CATOBS attribute has been omitted in the DCEG clause 26.39. It is present in IHO FCD register and FC_0.8.9 It looks strange in the FC because there is a feature type Foul Ground. CATOBS value 7 duplicates that feature type. The value 13 means "fish aggregating device (FAD)" in the FC_0.8.9 but it is "Subsurface ocean data acquisition system (ODAS)" in the DCEG clause 26.39. The omission causes the following values to change as well.	Reconcile IHO FCD register, FC and DCEG Restore fish aggregating device as #13 in the DCEG.	
FC		26.63		te	The enumerated value 13 (private mark) of CATSPM attribute has been omitted in the table. It is present in the FC and IHO FCD register. It looks strange in the FC because we have the Status attribute value "private" This CATSPM value 13 is superfluous. In order to encode the mandatory attribute CATSPM of a private beacon or a buoy when it cannot be classified, there are special values 27: „general warning marks" or 52:"mark with unknown purpose".	Reconcile FC and DCEG	
FC		Date/time attribute type for Date end, Date start, Time end, Time start, Reference year for magnetic variation		te	Date and time attributes as DATSTA, DATEND, RYRMGV, TIMEND, TIMSTA have value type "text" instead of "date" or "dateTime" for TIMEND, TIMSTA. Actually the value type "text" means any textual string but we must control that type according to the format date and time. Perhaps it must be defined by the FC? But the attribute "dredgedDate", "reportedDate" and "sweptDate" have value type equal to "date".	Set value type "date" for the attribute DATSTA, DATEND, RYRMGV and the type "dateTime" for TIMEND, TIMSTA Or introduce S100_TruncatedDate from S-100 Edition 2.0.0	
FC		Unit of measurement		te	The tag <uom/> has been omitted in attributes where it is appropriate e.g., speed limit.	Add units information (using the <uom> tag) for the appropriate attributes in the FC	

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FC		27.10	minimunDisplayScale	te	The values #1 (1000) of the "minimumDisplayScale" attribute is included in the FC though it has been omitted in the attribute table in the DCEG	Reconcile FC and DCEG	
FC		qualityOf SoundingMeasurement		te	The values #5(no bottom found at value shown) of the QUASOU attribute has been omitted in the attribute table in the DCEG though it is present in the description of the attribute in the FC	Reconcile FC and DCEG	
FC		timeRelativeToTide		te	The value type of the attribute "timeRelativeToTide" is integer in the FC but the DCEG clause 26.156 describes the possible format of the value as "sxx.x" and example as 1.5 hour. It means the value can be with a fraction.	Change the value type of "timeRelativeToTide" attribute to "real"	
FC		visuallyConspicuous		te	The value type of the attribute "visuallyConspicuous" is boolean in the FC but it is an enumeration in the DCEG	Change the value type of "visuallyConspicuous" attribute to "enumeration"	

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