DQWG DQWG19/5/1

Meeting 19 25 March 2024

Agenda Item 5.1

**Report on the Review of S-1xx Feature Catalogues**

Submitted by review of S-1xx FCs subWG

**SUMMARY**

Executive Summary: The subWG has carried out the Cross check of feature catalogues of published S-1xx including S-121, S-122, S-123, S-124, S-127, S-128, S-130 and S-131, updated the results of the review of S-1xx feature catalogues reported in DQWG18 are updated to S-101 Ed 1.2.0, and made some recommendations accordingly.

Action to be taken: See paragraph 4&5

Related documents: Action DQWG18/10

**1. Introduction**

According to action DQWG 18/10, the subWG comprised of Chair, US, France and SevenCs has conducted the Cross-check of feature catalogues of S-121 Ed 1.0.0, S-122 Ed 1.0.0, S-123 Ed 1.0.0, S-124 Ed 1.0.0, S-127 Ed 1.0.0, S-128 Ed 1.0.0, S-130 Ed 1.0.0 and S-131 1.0.0. In addition, the results of the review of S-1xx feature catalogues reported in DQWG18 are updated to S-101 Ed 1.2.0.

**2 Discussion**

The aims of the Cross-check of S-1xx Feature Catalogues are to:

* Confirm that the feature catalogue of S-1xx is consistent with its DCEG document.
* Confirm that the feature catalogue of S-1xx is consistent with the feature catalogue of the S-101 Ed 1.2.0.
* Confirm that the feature catalogue of S-1xx is consistent with the contents of GI registration, including confirm that the relevant items are valid in the registry.
* Confirm that the feature catalogue of S-1xx is consistent with S-100 in terms of structure and content.

**3. Results of the Cross-check of feature catalogues**

**3.1 The Cross-check of S-1xx FCs and its DCEG**

The Cross-check of feature catalogue of S-1xx including S-121, S-122, S-123, S-124, S-127, S-128, S-130 and S-131 Ed1.0.0 have been conducted one by one to verify whether the contents listed in both the main document and DCEG are consistent. The DCEG of S-124 are under development. The specific contents of the S-122, S-123, and S-131 feature catalogs are not listed in detail in DCEG, but are included in Appendix. The results of review are shown in table 1 to table 6 below.

Table 1 - Result of the Cross-check of S-121 and its DCEG

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Classification** | **Feature Catalogue Clause No.** | **DCEG Clause No.** | **Issue Type** | **Contents in Feature Catalogue** | **Contents in DCEG** |
| 1 | S | 4.6 | C.3.5 | Value type inconsistency | Text（general problem） | CharacterString |
| 2 | S |  | 　 | Value type inconsistency | enumeration | releasabilityTypeList |
|
| 3 | S |  | 　 | Enumeration listed values | Enumeration values had been listed. | Enumeration values had not been listed. |
|
| 4 | S |  | 　 | Value type correspondence | S100\_TruncatedDate | DateTime（4.6.5、4.6.6） |
| Date（4.6.11、4.6.12、4.6.13） |
| 5 | S | 3.58-3.60 | 4.6.14-4.6.16 | Abbreviations are used for names. | BAU Name | Basic Administrative Unit Name |
| 6 | S | 3.59 | 4.6.15 | Value type inconsistency | enumeration | CharacterString |
| 7 | S | 3.61-3.63 | 4.6.17 | Abbreviations are used for names | RRR Description | Right Restriction Responsibility Description |
| 8 | S | 3.62 | 4.6.18 | Value type inconsistency | real | CharacterString |
| 9 | S | 　 | 4.6.19, 4.6.21-4.6.24, 4.6.30-4.6.38, 4.6.40, 4.6.42-4.6.44, 4.6.61, 4.6.62, 4.6.64, 4.6.67, 4.6.69-4.6.73 | Missing attributes | null | Right Restriction Responsibility Share Check |
| 10 | S | 3.63 | 4.6.20 | Value type inconsistency | S100\_TruncatedDate | CharacterString |
| 11 | S | 3.63 | 4.6.20 | Abbreviations are used for attribute names | RRR Time Spec | Right Restriction Responsibility Time Specification |
| 16 | S | 3.45 | 4.6.27 | Attributes name inconsistency | Category of Party | Party Type |
| 17 | S | 3.46 | 4.9.15.3 | Part of the enumeration listed values is missing | null | Condominium |
| 18 | S | 3.1 | 4.6.41 | Value type inconsistency | enumeration | pointTypeList |
| 19 | S | 3.5 | 4.6.45 | Attributes name inconsistency | Jurisdiction Domain | Jurisdiction Domain Type |
| 20 | S | 3.25 | 4.6.54 | Attributes name inconsistency | Administrative Date Stamp | Source Administrative Date Stamp |
| 21 | S | 3.25、3.26、3.29、3.30 | 4.6.54, 4.6.55, 4.6.63, 4.6.65 | Value type inconsistency | S100\_TruncatedDate | DateTime |
| 22 | S | 3.25 | 4.6.54 | Attributes name inconsistency | Authoritative Date | Source Authoritative Date |
| 23 | S | 3.24 | 4.6.57 | Attributes name inconsistency（One with space and one without space） | sourceAvailabilityStatus | Source Availability Status |
| 24 | S | 3.24 | 4.6.57 | Value type inconsistency | enumeration | LA\_AvailableStatusType |
| 25 | S | 3.22 | 4.6.58 | Attributes name inconsistency（One with space and one without space） | administrativeSourceType | Administrative Source Type |
| 26 | S | 3.23 | 4.6.59 | Attributes name inconsistency（One with space and one without space） | spatialSourceType | Spatial Source Type |
| 27 | S | 3.23 | 4.6.59 | Value type inconsistency | enumeration | spatialSourceTypeList |
| 28 | S | 3.3 | 4.6.65 | Attributes name inconsistency | Source Recordation Date | Source Registration Date |
| 29 | S | 3.16-3.21 | 4.6.74-4.6.79 | Attributes name inconsistency（One with space and one without space） | onlineResourceLinkageURL | Online Resource Linkage URL |
| 30 | S | 3 | 　 | Missing attributes | 3.3, 3.4, 3.11, 3.13-3.15, 3.33-3.42, 3.54-3.57, 3.64-3.66 | null |
| 31 | C | 4.1-4.5 | 　 | Missing attributes | 　 | null |
| 32 | I | 7.5、7.6 | 　 | Missing information type | Additional Spatial Information；Supplementary information | null |
| 33 | I | 7.8 | 4.5.5 | Information type name inconsistency | Party | S121 Party |
| 34 | I | 　 | 4.5.6 | Missing information type | null | S121 Group Party  |
| 35 | F | 8.5 | 4.2.7 | Feature type name inconsistency | Low Tide Elevation Baseline | Low Tide Elevations  |
| 36 | F | 8.6 | 4.2.8 | Feature type name inconsistency | Mouth Of Rivers Baseline | Mouths of Rivers |
| 37 | F | 8.9 | 4.2.9 | Feature type name inconsistency | Reef Baseline | Reefs |
| 38 | F | 8.7 | 4.2.10 | Feature type name inconsistency | Bay Closing Baseline | Bays |
| 39 | F | 8.8 | 4.2.11 | Feature type name inconsistency | Port Baseline | Ports |
| 40 | F | 8.29 | 4.3.7 | Feature type name inconsistency | Roadstead | Roadsteads  |
| 41 | F | 　 | 4.4.4 | Missing feature type | null | Space  |
| 42 | F | 8.34 | 　 | Missing feature type | Strait | null |

N=Not included, S = simple attribute, C = complex attribute, R = role, A = association, I = information type, F = feature type.

Table 2 - Result of the Cross-check of S-122 and its DCEG

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Classification** | **Feature Catalogue Clause No.** | **DCEG Clause No.** | **Issue Type** | **Contents in Feature Catalogue** | **Contents in DCEG** |
| 1 | F | 3.68 | FeatureType | Data types and enumeration listed values are not described in DCEG | Value type of Source Type is enumeration | null |
| 2 | F | 3.97 | FeatureType | Online functionValue type inconsistency | S100\_CodeList | EN （should be replaced by CL） |
| 3 | F | 5.24 | FeatureType | Role name inconsistency | The RxN | theRXN |
| 5 | F | 3.13 | Marine Protected Area  | Attributes name inconsistency | Category of restricted area | Category of restrictions |
| 6 | F | 8.2 | Marine Protected Area  | The number of information associations is inconsistent | Only has protectedAreaAuthority. | Contains protectedAreaAuthority\additionalInformation\associatedRxN\PermissionType (association class)\Text Association |
| 8 | I | 7.2、7.4、7.5、7.9-3.55 | AbstractRxN/Authority/Contact Details/Ship Report | The corresponding simple attribute name of Online resource is different. | onlineDescription | Description  |
| 9 | I | 7.2 | AbstractRxN | The number of simple attributes included in the complex attribute“information” is inconsistent. | Contains fileLocator\fileReference\headline\language\text | Language, Text |
| 10 | I | 3.5 | Contact Details | The Call sign type is not specified in DCEG | text | null |
| 11 | I | 3.9 | Contact Details | The serial number of the enumeration listed values are inconsistent. | alternate calling 2；preferred working3 | alternate calling 3；preferred working2 |
| 12 | I | 7.5 | Contact Details | Quantity inconsistency of simple attributes contained in complex attribute frequencyPair  | null | Contact Instructions |
| 13 | I | 3.76 | Contact Details\Service Hours | Attribute type inconsistent of “timeOfDayEnd”. | time | C |
| 14 | I | 7.5 | Contact Details | Missing attributes | null | Radiocommunications |
| 15 | I | 7.5 | Contact Details | Missing attributes | information | null |
| 16 | I | 3.95 | Service Hours | Attribute type inconsistent of “Category of schedule ”. | S100\_CodeList | EN （should be replaced by CL） |
| 17 | I | 7.7 | Non Standard Working Day  | Information type name inconsistency | Non-standard working day | Non Standard Working Day  |
| 18 | I | 3.28 | Non Standard Working Day  | Attributes name inconsistency | Date fixed | Fixed Date  |
| 19 | I | 3.30 | Non Standard Working Day  | Attributes name inconsistency | Date variable | Variable Date |
| 20 | I | 3.8 | Applicability | Category of CargoAttributes name inconsistency | 4、category of cargo liquid | 4 : liquid  |
| 21 | I | 3.10 | Applicability | Category of Dangerous or Hazardous CargoAttributes name inconsistency | 6、category of cargo liquid | 6: IMDG Code Class 1 Div.1.6 |
| 22 | I | 3.73 | Applicability | Attribute type inconsistent of “Thickness of ice capability”. | text | IN |

N=Not included, S = simple attribute, C = complex attribute, R = role, A = association, I = information type, F = feature type.

Table 3 - Result of the Cross-check of S-123 and its DCEG

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Classification** | **Feature Catalogue Clause No.** | **DCEG Clause No.** | **Issue Type** | **Contents in Feature Catalogue** | **Contents in DCEG** |
| 1 | F | 8.17 | 4.4 | Feature type name inconsistency | Quality of NonBathymetric Data | Quality of non-bathymetric data |
| 2 | F | 3.19 | 4.4 | enumerationListed values’ name inconsistency | extreme event | 1 : event |
| 3 | F | 3.26 | 5.1 | Value type of country had not been specified. | text | null |
| 4 | F | 3.114 | 5.1 | Online functionValue type inconsistency | S100\_CodeList | EN（should be replaced by CL） |
| 5 | F | 8.4 | 5.3 | Contained attribute values are inconsistent. | communicationChannel | null |
| 6 | F | 3.108 | 5.8/5.9/5.10/5.11/8.4 | Inconsistent value types | text | TX（should be TE？） |
| 7 | F | 8.13 | 5.11 | Feature type name inconsistency | Weather forecast and warning area | Weather forecast / warning area |
| 8 | F | 8.7 | 6.2 | Association types of CompositionThe are inconsistent. | FuzzyAreaAggregate | Forecast areaaggregate/ Radio service area aggregate |
| 9 | F | 8.18 | 7.1 | Association types of asso are inconsistent. | FeatureType | All Geo Features |
| 10 | I | 7.2-3.657.4-3.65 | 8.28.3 | Attribute name of onlineResource is inconsistency（Full-text Problem） | onlineDescription | Description |
| 11 | I | 7.2-4.9 | 8.2 | Complex attributes contain inconsistent simple attributes | fileLocator, fileReference, headline | null |
| 12 | I | 7.5-4.19 | 8.4 | Simple attributes included in the same complex attribute are inconsistent. | Telecommunications includes categoryOfCommPref and tmIntervalsByDoW. | Telecommunications do not contains this two simple attributes. |
| 13 | I | 7.5-3.10 | 8.4 | The attribute type is not specified | enumeration | (categoryOfCommPref) The attribute type is not specified. |
| 14 | I | 7.5-4.14 | 8.4 | Attributes inconsistent. | 4.14 contains 3.15, 4.3, 3.104, 3.76, 4.22, 4.23, 3.87, 3.107 | null |
| 15 | I | 7.7 | 8.6 | Feature type name inconsistency | Non-standard working day | Non Standard Working Day |
| 16 | I | 7.7-3.31、3.33 | 8.6 | Feature type name inconsistency | dateFixeddateVariable | Fixed DateVariable Date |

N=Not included, S = simple attribute, C = complex attribute, R = role, A = association, I = information type, F = feature type.

Table 4 - Result of the Cross-check of S-128 and its DCEG

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Classification** | **Feature Catalogue Clause No.** | **DCEG Clause No.** | **Issue Type** | **Contents in Feature Catalogue** | **Contents in DCEG** |
| 1 | A | 6.3 | 5.3 | Inconsistent rolename | theCatalogueElements | The Catalogue of Element  |
| 2 | C | 4.17 | 8.17 | Inconsistent attributename | issn | ISSN |
| 3 | F | 8.5 | 3.5 | Inconsistent association | Roleonly contains boundary | Rolecontainsboundaryand insert |

N=Not included, S = simple attribute, C = complex attribute, R = role, A = association, I = information type, F = feature type.

Table 5 - Result of the Cross-check of S-130 and its DCEG

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Classification** | **Feature Catalogue Clause No.** | **DCEG Clause No.** | **Issue Type** | **Contents in Feature Catalogue** | **Contents in DCEG** |
| 1 | F | 8.1 | 3.1 | Inconsistent rolename | consistsOf | componentOf |

N=Not included, S = simple attribute, C = complex attribute, R = role, A = association, I = information type, F = feature type.

Table 6 - Result of the Cross-check of S-131 and its DCEG

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Classification** | **Feature Catalogue Clause No.** | **DCEG Clause No.** | **Issue Type** | **Contents in Feature Catalogue** | **Contents in DCEG** |
| 1 | S | 3.7 | 17.7 | Enumeration value inconsistency | 6．Icebreaking Ship | null |
| 2 | S | 3.125 | 17.12 | Enumeration value inconsistency | Metres | null |
| 3 | R | 5.7 | 16.5 | Role name inconsistency | Authority | Authority (reference) |
| 4 | R | 5.9 | 16.7 | Role name inconsistency | Contact details | Contact details (reference) |
| 5 | A | 6.2 | 15.2 | Role name inconsistency | theContactDetails；theAuthority | Contact details (reference); Authority (reference) |
| 6 | A | 6.3 | 15.3 | Role name inconsistency | theServiceHours；theAuthority\_srvHrs | Service Hours (reference);Authority service hours |
| 7 | A | 6.7 | 15.1 | Role name inconsistency | theContactDetails | Contact details (reference) |
| 8 | A | 6.16 | 15.15 | Role name inconsistency | subUnit | Sub-Unit |
| 9 | F | 8.4 | 5.5 | Corresponding association type inconsistent | HarbourAreaSection | Terminal |
| 10 | F | 8.6、8.9 | 6.2、6.5 | Association name inconsistency | PrimaryAuxiliaryFacility | Primary/Auxiliary Facility |
| 11 | F | 8.8 | 6.4 | Corresponding association type inconsistent | HarbourAreaSection | HarbourAreaSection, Terminal |
| 12 | F | 8.12 | 6.7 | Corresponding association type inconsistent | HarbourAreaSection | HarbourBasin |
| 13 | F | 8.16 | 6.9 | Corresponding association type inconsistent | AnchorageArea | AnchorageArea,Berth, DockArea, DumpingGround, HarbourBasin, PilotBoardingPlace,SeaplaneLandingArea,Terminal, TurningBasin, WaterwayArea |
| 14 | F | 8.19 | 6.11 | Corresponding association type inconsistent | AnchorBerth | BerthPosition |
| 15 | F | 8.3 | 8.1 | Corresponding association role inconsistent | positions | identifies  |

N=Not included, S = simple attribute, C = complex attribute, R = role, A = association, I = information type, F = feature type.

**3.2 The Cross-check of S-1xx and S-101 FCs**

The subWG has compared the S-101 feature catalog with other products feature catalog including S-121, S-122, S-123, S-124, S-127, S-128, S-130 and S-131 and verified one by one whether each FC items listed in both are consistent. Results are shown in Table 7.

Table 7 - Cross-check results between S-1xx and S-101 feature catalogue

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Publications** | **S-1xx Clause No.** | **S-101 Clause No.** | **Issue Type** | **Contents in S-1xx Feature Catalogue** | **Contents in S-101 Feature Catalogue** |
| 1 | S-121 | 8.146 | 8.3 | Feature type name inconsistency | Straight Territorial Sea Baseline | Straight Baseline |
| 2 | S-121 | 8.147 | 8.25 | Feature type name inconsistency | Territorial Sea Area | Territorial Sea |
| 3 | S-121 | 8.137 | 8.28 | Feature type name inconsistency | Continental Shelf Area | Continental Shelf |
| 4 | S-122 | 3.79 | 3.24 | Name inconsistency | Assessed (Oceanic) | oceanic |
| 5 | S-122 | 3.85 | 3.25 | Enumeration listed values coding inconsistent. | 1 Sunday | 1 Monday |
| 6 | S-122 | 3.84 | 3.30 | Value type inconsistency | text | date |
| 7 | S-122 | 3.129 | 3.48 | Value type inconsistency | text | URL |
| 8 | S-122 | 3.141 | 3.50 | Value type inconsistency | text | integer |
| 9 | S-122 | 3.191 | 3.69 | EnumerationListed values’ name inconsistency | Unwatched | un-watched |
| 10 | S-122 | 3.58 | 3.95 | Value type inconsistency | enumeration | S100\_CodeList |
| 11 | S-122 | 3.201 | 3.98 | Value type inconsistency | enumeration | S100\_CodeList |
| 12 | S-122 | 3.206 | 3.100 | EnumerationListed values’ name inconsistency | name | feature name |
| 13 | S-122 | 8.1 | 8.7 | Attributes name inconsistency | Quality of Non-Bathymetric Data | Quality of NonBathymetric Data |
| 15 | S-123 | 3.79 | 3.27 | Name inconsistency | Assessed (Oceanic) | oceanic |
| 16 | S-123 | 3.85 | 3.28 | Enumeration listed value number inconsistent. | 1 Sunday | 1 Monday |
| 17 | S-123 | 3.84 | 3.33 | Value type inconsistency | text | date |
| 18 | S-123 | 3.129 | 3.55 | Value type inconsistency | text | URL |
| 19 | S-123 | 3.58 | 3.112 | Value type inconsistency | enumeration | S100\_CodeList |
| 20 | S-123 | 3.201 | 3.115 | Value type inconsistency | enumeration | S100\_CodeList |
| 21 | S-123 | 8.1 | 8.17 | Attributes name inconsistency | Quality of Non-Bathymetric Data | Quality of NonBathymetric Data |
| 22 | S-127 | 3.61 | 3.23 | Enumeration listed value name inconsistency | Flood Barrage Station | flood barrage |
| 23 | S-127 | 3.6 | 3.24 | Enumeration listed value name inconsistency | Ice Warning | ice |
| 24 | S-127 | 3.129 | 3.58 | Value type inconsistency | text | URL |
| 25 | S-127 | 3.191 | 3.88 | Enumeration listed value name inconsistency | Unwatched | un-watched |
| 26 | S-127 | 3.201 | 3.120 | Value type inconsistency | enumeration | S100\_CodeList |
| 28 | S-128 | 3.173 | 3.7 | Value type inconsistency | S100\_TruncatedDate | date |
| 29 | S-128 | 3.193 | 3.16 | Attributes name inconsistency | Telecommunication Service | Telecommunication Services |
| 30 | S-128 | 3.201 | 3.16 | Enumeration listed value name inconsistency | SMS | sms |
| 32 | S-128 | 3.83 | 3.53 | Attributes name inconsistency | Date Start | Start Date |
| 33 | S-128 | 3.81 | 3.54 | Attributes name inconsistency | Date End | End Date |
| 34 | S-128 | 3.833.81 | 3.533.54 | Value type inconsistency | S100\_TruncatedDate | date |
| 35 | S-130 | 5.5 | 5.1 | 101 has space，130 do not has space. | Component of | componentOf |
| 36 | S-130 | 5.6 | 5.2 | 101 has space，130 do not has space. | Consists of | consistsOf |

**3.3 The Cross-check of S-1xx FCs and GI registry**

The subWG has checked the data dictionary register of the GI registry and verified whether each FC item of the S-1xx including S-121, S-122, S-123, S-124, S-127, S-128, S-130 and S-131 had been registered in the system. Results of the check are shown in Table 8.

Table 8 - S-1xx feature catalog registration check results

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Publications** | **Feature Catalogue Clause No.** | **Contents in S-1xx Feature Catalogue** | **Status** |
| 1 | S-121 | 3.6 | Releasability Type | Unregistered |
| 2 | S-121 | 3.16-3.20、3.22 | The feature catalogue uses the camelcase representation of the attribute, not the registered name. | Registered |
| 3 | S-121 | 3.21 | onlineResourceFunction | Unregistered |
| 4 | S-121 | 3.23 | spatialSourceType | Unregistered |
| 5 | S-121 | 3.24 | sourceAvailabilityStatus | Unregistered |
| 6 | S-121 | 3.30 | Source Recordation Date | Unregistered |
| 7 | S-121 | 3.37 | Address Postcode | Unregistered |
| 8 | S-121 | 3.38 | Address Email Address | Unregistered |
| 9 | S-121 | 3.39 | Contact Phone Number | Unregistered |
| 10 | S-121 | 3.41 | Responsible Party Organisation Name | Unregistered |
| 11 | S-121 | 3.46 | Party Group Type | Unregistered |
| 12 | S-121 | 3.54 | Individual Name | Unregistered |
| 13 | S-121 | 3.55 | Organisation Name | Unregistered |
| 14 | S-121 | 3.56 | Position Name | Unregistered |
| 15 | S-121 | 3.57 | Organisational Role | Unregistered |
| 16 | S-121 | 3.58 | BAU Name | Unregistered |
| 17 | S-121 | 3.59 | BAU Name | Unregistered |
| 18 | S-121 | 3.60 | BAU Context | Unregistered |
| 19 | S-121 | 3.61 | RRR Description | Unregistered |
| 20 | S-121 | 3.62 | RRR Share | Unregistered |
| 21 | S-121 | 3.63 | RRR Time Spec | Unregistered |
| 22 | S-121 | 4.1 | Source Address | Unregistered |
| 23 | S-121 | 7.2 | Right | Unregistered |
| 24 | S-121 | 7.9 | Source | Unregistered |
| 25 | S-121 | 8.7 | Bay Closing Baseline | Unregistered |
| 26 | S-122 | 3.3 | Ballast（It is In Ballast in GI, and have same definitions,but different names） | Unregistered |
| 27 | S-122 | 3.15 | Category of temporal variation（This attribute is available in GI, but there are two Spaces after “of” in FC） | Registered |
| 28 | S-122 | 3.55 | Online description | Unregistered |
| 29 | S-122 | 3.74 | Time reference | Unregistered |
| 30 | S-122 | 3.92 | Variable Date | Unregistered |
| 31 | S-122 | 4.16 | Source indication（Not in complex types, only in attribute types, that is, there are no sub-attributes） | Unregistered |
| 32 | S-122 | 4.21 | Vessels measurements | Unregistered |
| 33 | S-122 | 7.1 | InformationType (The feature catalogue uses the camelcase representation of the attribute, not the registered name.) | Registered |
| 34 | S-122 | 8.1 | FeatureType (The feature catalogue uses the camelcase representation of the attribute, not the registered name.) | Registered |
| 35 | S-122 | 8.7 | Quality of NonBathymetric Data（Inconsistent name, in GI is Quality of Non-Bathymetric Data） | Registered |
| 36 | S-123 | 3.3 | Ballast（It is In Ballast in GI, and have same definitions,but different names） | Unregistered |
| 37 | S-123 | 3.19 | Category of temporal variation（This attribute is available in GI, but there are two Spaces after “of” in FC） | Unregistered |
| 38 | S-123 | 3.65 | Online description | Unregistered |
| 39 | S-123 | 3.84 | Time reference | Unregistered |
| 40 | S-123 | 3.109 | Variable Date | Unregistered |
| 41 | S-123 | 4.15 | Radio station communication description | Unregistered |
| 42 | S-123 | 4.17 | Source indication（Not in complex types, only in attribute types, that is, there are no sub-attributes） | Unregistered |
| 43 | S-123 | 4.22 | Time of observation | Unregistered |
| 44 | S-123 | 4.24 | Vessels measurements | Unregistered |
| 45 | S-123 | 7.1 | InformationType (The feature catalogue uses the camelcase representation of the attribute, not the registered name.) | Registered |
| 46 | S-123 | 8.1 | FeatureType(The feature catalogue uses the camelcase representation of the attribute, not the registered name.) | Registered |
| 47 | S-123 | 8.4 | Coastguard station | Unregistered |
| 48 | S-123 | 8.17 | Quality of NonBathymetric Data（Inconsistent name, in GI is Quality of Non-Bathymetric Data） | Registered |
| 49 | S-127 | 3.99 | Underkeel allowance fixed | Unregistered |
| 50 | S-127 | 3.100 | Underkeel allowance variable beam based | Unregistered |
| 51 | S-127 | 3.101 | Underkeel allowance variable draught based | Unregistered |
| 52 | S-127 | 4.16 | Source indication（Not in complex types, only in attribute types, that is, there are no sub-attributes） | Unregistered |
| 53 | S-127 | 4.21 | Underkeel allowance | Unregistered |
| 54 | S-127 | 4.22 | Vessels measurements | Unregistered |
| 55 | S-127 | 8.2 | Organisation contact area | Unregistered |
| 56 | S-127 | 8.8 | Local Port Service Area | Unregistered |
| 57 | S-127 | 8.20 | Ship Reporting Service Area | Unregistered |
| 58 | S-127 | 8.23 | Underkeel clearance allowance area | Unregistered |
| 59 | S-127 | 8.24 | Underkeel clearance management area | Unregistered |
| 60 | S-127 | 8.27 | Data quality | Unregistered |
| 61 | S-127 | 8.28 | Quality of temporal variation | Unregistered |
| 62 | S-128 | 3.4 | Other Data Type Description | Unregistered |
| 63 | S-128 | 3.5 | File Location | Unregistered |
| 64 | S-128 | 3.6 | File Name | Unregistered |
| 65 | S-128 | 3.9 | ISSN | Unregistered |
| 66 | S-128 | 3.10 | Character Encoding | Unregistered |
| 67 | S-128 | 3.14 | Digital Signature Value | Unregistered |
| 68 | S-128 | 3.15 | Digital Signature Value | Unregistered |
| 69 | S-128 | 3.16 | Telecommunication Services (Inconsistent name, in GI is Telecommunication Service. They have same definitions,but different names) | Unregistered |
| 70 | S-128 | 3.17 | Support File Purpose | Unregistered |
| 71 | S-128 | 3.18 | Support File Format | Unregistered |
| 72 | S-128 | 3.21 | Organization Name | Unregistered |
| 73 | S-128 | 3.22 | Time Reference | Unregistered |
| 74 | S-128 | 3.23 | Category of CommPref | Unregistered |
| 75 | S-128 | 3.34 | Copyright | Unregistered |
| 76 | S-128 | 3.36-3.38、3.41、 | 3.36-3.38, 3.41, 3.46, 3.48-3.55, 3.58-3.59, 3.64-3.65, 3.71-3.82, 3.85-3.91, 3.93, 3.95-3.98, 3.100, 3.102 | Unregistered |
| 77 | S-128 | 4 | 4.1, 4.3, 4.4, 4.6, 4.8, 4.14-4.21 | Unregistered |
| 78 | S-128 | 7 | 7.2-7.4 | Unregistered |
| 79 | S-128 | 8 | 8.1-8.6 | Unregistered |
| 80 | S-130 | 3.5 | minimumDisplayScale (The feature catalogue uses the camelcase representation of the attribute, not the registered name.) | Registered |
| 81 | S-130 | 3.6 | Numerical Identifier | Unregistered |
| 82 | S-130 | 3.10 | Text Lat（Definition to be proposed to the IHO GI Registry for the next version.） | Unregistered |
| 83 | S-130 | 3.11 | Text Lon（Definition to be proposed to the IHO GI Registry for the next version.） | Unregistered |
| 84 | S-130 | 3.12 | Version（Definition to be proposed to the IHO GI Registry for the next version.） | Unregistered |
| 85 | S-130 | 4.2 | Location Reference（Not in complex types, only in attribute types, that is, there are no sub-attributes）（Definition to be proposed to the IHO GI Registry for the next version.） | Unregistered |
| 86 | S-130 | 4.3 | Source indication（Not in complex types, only in attribute types, that is, there are no sub-attributes） | Unregistered |
| 87 | S-130 | 8.1 | Global Sea Area | Unregistered |
| 88 | S-131 | 4.32 | Vessels Measurements | Unregistered |

**3.4 The Cross-check of S-1xx FCs and S-100**

S-121 DCEG don’t conform to S-100, as shown in Figure 1. Other product specifications are in good conformity with S-100.



Figure 1 S-121 feature catalogue

**3.5 Update the results of the review of S-1xx feature catalogues reported in DQWG18 to S-101 Ed 1.2.0.**

The results of the review of S-1xx feature catalogues reported in DQWG18 are upgraded to S-101 Ed 1.2.0 and shown in table 9 and table 10 below.

Table 9 - Cross-check results of the of S-101 and its DCEG

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Classification** | **Feature Catalogue Clause No.**  | **DCEG Clause No.** | **Inconsistencies type** | **Contents in Feature Catalogue** | **Contents in DCEG** |
| 1 | S | 3.80-3.83，3.94\3.166\3.168\3.198 | 27.79-27.82,27.92\27.151\27.153\27.172 | Inconsistent value types | The value type is S100\_TruncatedDate. | The attribute type is Truncated Date. |
| 2 | S | Example3.8 | Example27.8 | Inconsistent attribute types | All attributes of the text are text. | All attributes of the text are free text. |
| 3 | R | 5.11 |  | omission | Information provided for | N |
| 4 | A | 6.1 |  | omission | Role reference include 5.11 informationProvidedFor | N |
| 5 | I | 7 |  | Inconsistent attribute types | All type of simple attributes are S. | Type of Simple attribute are IN, TE, TD, TI, BO, RE and EN. |
| 6 | F | 8 |  | Inconsistent attribute types | All type of simple attributes are S. | Type of Simple attribute are IN, TE, TD, TI, BO, RE and EN. |
| 7 | F | 8.162 | 20.6 | omission | Include assoiation 6.7 AidsToNavigationAssociation | N |
| 8 | F | 8.179 | 21.5 | omission | association RangeSystemAggregation. | There is no corresponding content in the DCEG Ed 1.1.0. |
| 9 | F | Example 8.30 | Example 6.5 | Inconsistent association featuresExample：association features of providesInformation  | Contact Details | Contact Details, Non Standard Working Day, Service Hours, Nautical Information |

N=Not included, S = simple attribute, C = complex attribute, R = role, A = association, I = information type, F = feature type.

Table 10 – update of the Cross-check results of S-1xx and S-101 FCs reported in DQWG18

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Publications** | **S-1xx Clause No.** | **S-101 Clause No.** | **Contents in S-1xx Feature Catalogue** | **Contents in S-101 Feature Catalogue** |
| 1 | S-102 | 3.1 | 3.220 | Depth | Value of Sounding |
| 2 | S-102 | 3.2 | 4.40 | uncertainty | vertical uncertainty |
| 3 | S-111 | 3.2 | 4.27 | surfaceCurrentSpeed | Speed |
| 4 | S-111 | 3.1 | 3.154 | surfaceCurrentDirection | Orientation Value |
| 5 | S-129 | 3.6  | 3.135 | maximumDraught | Maximum Permitted Draught |
| 6 | S-129 | 3.17 | 3.83 | Time Start | Date Start |
| 7 | S-129 | 3.18 | 3.81 | Time End | Date End |
| 8 | S-129 | 4.1 | 4.4 | Fixed Time Range | Fixed Date Range |
| 9 | S-129 | 3.1,3.9 |  | 3.1and 3.9 are repeated in S-129 FC. |  |

**4. Recommendations**

It is recommended to:

a) Feedback to S-1xx developers respectively.

b) Continue the Cross-check of FCs of new and amended S-1xx.

c) Invite other product specifications (e.g. S-421) to join in the review.

**5. Action**

The DQWG is requested to:

1. **Note** the information provided;
2. **Approve** the recommendations above.