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|  | NL |  |  | TE | Similar to my comment in the S104, for any attribute that is a string but has a mandatory mask or standardized value the value should comply with the mask value. This applies to productSpecification, issueDate, issueTime. DateTime should follow ISO 8601:1988, ie. 00010101T000000Z |  | Added wording to existing incorrect value checks regarding root, feature, and feature instance level string attributes not following the string format specified in the PS. Added incorrect value/string format checks to values group level. |
|  | NL |  |  | TE | Also similar to my S104 comment, a number of mandatory attributes have been mentioned in the general attribute section but not all. Maybe it’s best to add a general test for attributes that are mandatory or specify each mandatory and each conditional mandatory attribute as having to need a value. | Attributes productSpecification, issueDate, horizontalCS, westBoundLongitude, eastBoundLongitude, southBoundLongitude, northBoundLongitude, depthTypeIndex, surfaceCurrentDepth, issueTime, verticalCS, verticalCoordinateBase, verticalDatumReference, verticalDatum are mandatory and need to be present and have a value.  Attributes nameOfHorizontalCRS, typeOfHorizontalCRS, horizontalCS, horizontalDatum, nameOfHorizontalDatum, primeMeridian, spheroid, projectionMethod are conditionally mandatory and need to be present and have a value when conditions are met. | Added conditionally mandatory wording to existing overarching S111\_Dev1002 check, and in remarks that TWCWG discussion to occur to determine best way to implement conditionally mandatory attribute checks (e.g., simpler wording, or checks that are specific to each such conditionally mandatory attribute). |
|  | NL |  |  | TE | It just occurred to me that for both the S104 and S111 we haven’t defined a test for conditional mandatory attributes. I did mention something along the lines of ‘adding conditionality to the status of mandatory attributes’ but not something that specifies the trigger of the conditionality. | If horizontalCRS is set to -1 then nameOfHorizontalCRS, typeofHorizontalCRS, horizontalCS, horizontalDatum need to be present and have a value.  If horizontalDatum is set to -1 then nameOfHorizontalDatum, primeMedirian, spheroid need to be present and have a value.  If typeOfHorizontalCRS is set to 2 then projectMethod needs to be present and have a value. | As above, added conditionally mandatory wording to existing overarching S111\_Dev1002 check, and in remarks that TWCWG discussion to occur to determine best way to implement conditionally mandatory attribute checks (e.g., simpler wording, or checks that are specific to each such conditionally mandatory attribute). |
|  | NL |  |  | GE | “If attribute methodCurrentProduct is mandatory”. I see that it indeed can have a value but the conditionality is specified as 0..1. I checked the text but I did not see anything that requires this attribute to be mandatory. |  | No change implemented. The wording “IF attribute \_\_\_\_ is mandatory” was used for all optional attributes, following the edition 0.2.0 method for validating optional attributes. The optional attribute checks still contain the check that if the attribute is found and not of the correct datatype (invalid). |
|  | NL | S111\_Dev2011 |  | TE | Shouldn’t we also have a test for minDatasetCurrentSpeed <= maxDatasetCurrentSpeed? |  | Added check as proposed. Also added similar check for S-104 minDatasetHeight > maxDatasetHeight in S-158:104 Ed 1.0.0 checks. |
|  | NL | S111\_Dev3001,  S111\_Dev3002 |  | TE | The boundingbox should also be within the boundingbox of the General Metadata boundingbox and it should adhere to general rules like -90 <= lat <= 90, -180 <= lon <= 180, east >= west and north >= south. |  | Added “OR the bounding box attributes in <FINST> are not within the bounding box attributes in the root group of the HDF5 dataset.” to S111\_Dev3002 check. As remark states, this check is a generic sanity check and “appropriate ranges” (e.g. -90 to 90 and -180 to 180) depend on which CRS is used. |
|  | NL | S111\_Dev3006 |  | ED | dateTimeOfFirstRecord <= dateTimeOfLastRecord? |  | No change as dateTimeOfFirstRecord and dateTimeOfLastRecord are strings so < or > cannot be directly performed. Existing wording “does not coincide with or follow” sufficient. |
|  | NL | S111\_Dev5022,  S111\_Dev5024  S111\_5026  ,  S111\_Dev5027 |  | ED | <> -9999.00. Shouldn’t that be the fillValue as defined in the feature definition in Group\_F? |  | Changed to “the fillValue as encoded in <FIDS> in Table 10.3.” Changed the same in the S-158:104 checks. |
|  | NL | S111\_Dev5025 |  | ED | This is more or less similar to my previous comment about mask values and DateTime masks. DateTime values should follow follow ISO 8601:1988, ie. 00010101T000000Z |  | Added “AND does not follow the string format specified in Annex A - Data Classification and Encoding Guide for the surfaceCurrentTime attribute.” |
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