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|  | NL | S104\_Dev1002 |  | te | “multiplicity lower bound = 1”. Not all attributes are defined that strictly. **There also are attributes that are conditionally mandatory, like nameOfHorizontalCRS that is mandatory when horizontalCRS = -1** | FOR EACH attribute in General Metadata with multiplicity lower bound = 1 **or where lower bound conditionally = 1**, WHERE an HDF5 attribute with the identical camel case name and value type does not exist in the root group | Added conditionally mandatory wording to S104\_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 | S104\_Dev1004 |  | te | “IF attribute epoch is present and has no value (NULL or empty / blank string)“. **This is oddly specific. What about the other non-mandatory attributes?** | If any non-mandatory attribute is present but has no value (NULL, empty or blank string) | Changed as proposed. Also changed as proposed in S-158:111 checks. |
|  | NL | S104\_Dev1003 |  | ge | “IF attribute verticalDatum is not present”. **Isn’t this caught by S104\_Dev1002 since the attribute is mandatory?** |  | Removed check as proposed. Also removed S104\_Dev1005. Can add back in future editions if/when checks for all General Metadata attributes are included. Also removed the 2 checks as proposed from S-158:111 checks. |
|  | NL | S104\_Dev1006 |  | ed | “Attribute metaFeatures present but empty or blank”. **I was wondering what this attribute is? There used to be an attribute called “metadata” in v.1.1.0 but what is attribute “metaFeatures”?** |  | Removed check as proposed. Also removed as proposed from S-158:111 checks. |
|  | NL | S104\_Dev1018 |  | te | Attribute ‘metadata’ did exist in v 1.1.0 but is removed in v2.0. | Remove S104\_Dev1018 | Confusion about check- kept check but revised wording to be more clear that it is about any string attribute that is over 300 characters. |
|  | NL |  |  | te | I seem to be missing a specific test for mandatory attributes that are not a range but do require a specific mask or specific order. Attribute productSpecification is one of these. If we have a test for ranges shouldn’t we also have a test for (string) attributes that require a specific mask or date format string (like issueDate)? |  | 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 |
|  | NL | S104\_Dev2021 |  | te | Attribute “metadata” does not exists (anymore?) in Feature Type attribute definition. Maybe it’s better to use the remark “The maximum length of all string HDF5 attributes is 300 characters.” and make it a general test for all string attributes? |  | Revised wording of check to be clearer that it is about any string attribute that is over 300 characters. |
|  | NL | S104\_Dev3002 |  | te | “IF the values of attributes westBoundLongitude, eastBoundLongitude, southBoundLatitude, northBoundLatitude are not within the appropriate ranges OR (eastBoundLongitude <= westBoundLongitude) OR northBoundLatitude <= southBoundLatitude”  How to determine ‘appropriate”. There are of course a general tests like latitude [-90 .. 90] and longitude [-180 .. 180], eastBoundLongitude >= westBoundLongitude, northBoundLatitude >= southBoundLatitude. Other tests are more difficult. I’d say the bounding box of the feature type instance should be within the bounding box of the general metadata. |  | Added “OR the bounding box attributes in <FINST> are not within the bounding box attributes in the root group of the HDF5 dataset.” to S104\_Dev3002 check. As remark states, this check is a generic sanity check and “appropriate ranges” depend on which CRS is used. |
|  | NL | S104\_Dev3010 |  |  | Attribute “verticalDatumEpoch”? | Remove test | Confusion about check- kept check. |
|  | NL | S104\_Dev3025 |  |  | I’m beginning to suspect that I’m the one who is not getting the sentence. Maybe the test is referring to the general string attribute test. But isn’t it better to rephrase it to “The maximum length of all string HDF5 attributes is 300 characters.” and make it a general test for all string attributes? |  | See above remark for S104\_Dev2021. Revised wording of these 300 character limit string attribute checks. Changed the same in the S-158:111 checks. |
|  | JP | S104\_Dev1007 |  | ed | Add Domain Consistency to Data Quality Measure | Logical Consistency / Conceptual Consistency / Domain Consistency | Added. Added the same in the S-158:111 checks. |
|  | BR |  | Spreadsheet of S-104 validation checks | te | In a nautical chart whose bathymetry uses local Chart Datums from different epochs, it is possible that S-104 information derived from sea level observations is used in an area with a Chart Datum from a different epoch. In such cases, this error message may appear. | Include the Check Message: Vertical datum Epoch of <FINST> differs from vertical datum Epoch at General Metadata level  Include the description: IF the vertical datum Epoch of a Feature Instance group is different than the vertical datum specified in the General Metadata level  Include Check Solution: Correct the dataset so that the vertical datum epoch of each Feature Instance group matches the epoch specified at the General Metadata level. Add or correct the verticalDatumEpoch attribute in the dataset as needed. | Added check. |
|  | BR |  | Document History | ed | It is written “Cuirrents” | IHO Tides, Water Level, and Currents | Corrected. Also corrected in S-158:111 cover document. |
|  | BR | 1.7.1 | Specification metadata | ed | It is written “Naviational” | Navigational Warnings Validation Checks | Corrected. Also corrected in S-158:111 cover document. |
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