**NIPWG 8/2019 letter**

**S-128 Catalogue of nautical products - Working Draft – Edition 0.7.5**

**Annexe to the French comments form. Comments related to the application schema.**

Yves Le Franc - 27 February 2020.

**General**

* The fact that most of the attributes are optional is questioning. Some stronger requirements will probably appear when the purposes of the catalogue data will be better defined. Another reason is perhaps that the kinds of products (NauticalProduct, ElectronicChart, PaperChart) are too much generic with too much aggregation. A way could be to have more specific categories of products (and so more final feature types). For the new S-100 based products, we will find in their S-100 PS what are their essential characteristics to be described in a catalogue.
* For textual data (other than very short texts like alphanumeric codes or numbers), it should be possible to use multiple languages.
* Enumeration **categoryOfAuthority** must include *Hydrographic office, RENC*
* Many data will be repeated in each feature (ie classification, copyright, productType, purpose, information, price, producingAgency, productSpecification, textContent, producerCode, producerNation). Features are often part of a collection (ie chart series, Nautical Publications series). S-100 § 4a-5.6.2 suggests parentMetadata. This notion might be used in the S-128 model.
* An hypothesis is that the calatogue data will be used as a reference to know what is the updated product in force (eg what is the lastest edition or what updates must been applied for having the updated product). This information may differ from the description of the product effectively delivered (ie a paper chart or a printed book). Thus, it is proposed to introduced the term « status » in the name of the attributes related to up-to-dateness of nautical products (editionNumber, updateDate, updateNumbers, version 🡪 editionNumberStatus, updateDateStatus, updateNumberStatus, versionStatus)

**CatalogueOfNauticalProduct**

* The catalogue is a product itself. Thus, the following attributes might be added:
  + Classification
  + *Copyright (tbc)*
  + Purpose
  + Information
  + *Price (tbc)*
  + producingAgency: then the InformationType ContactDetail could be removed, if all the data are in producingAgency (the usefulness of sourceIndication is questionning)
  + OnlineResource: often catalogues include the list of resellers. So, this list could be found on a web page of the producing agency.
  + producerCode
  + producerNation
  + SourceIndication (if it reflects information related to the issuing authority).
* issueDate should be S100\_TruncatedDate like it is for catalogueElements
* The catalogue may be updated with each product update (ie weekly and even daily ). Then, the meaning editionNumber as an interger is questionning.
* But finally a question is « should we avoid duplication with Metadata (datasetDiscoveryMetadata) ? »

**CatalogueElements**

* It is proposed to add an attribute Portfolio. A portfolio is a set of elements of a catalogue. It should be possible to assigne an element of a catalogue to 0, 1 or more Portfolios. A portfolio has a name at least.
* productType:
  + an INTernational chart isa paper chart. Then, the « International » nature should be outside this attribute (value to be removed). When a chart is INTernational, it has an INT number. It is proposed to add an attribute INTchartNumber to PaperChart.
  + It is proposed to change:
    - Paper chart in paper nautical chart
    - Raster chart in raster nautical chart
* It is proposed to add the attribute graphicto CatalogueElement for allowing an image of the product.
* We should not exclude that SpatialAttributes is a point (ie tide-gauge service).
* We don’t see the usefulness of the attribute of sourceIndication

**AbstractChartProducts**

* Some charts are a (modified) facsimile of a chart of another nation. Then, the catalogue should provide the orginal number of the chart. It is proposed to add an attribute « originalChartNumber » (text).
* Specific usages in S-101 are 1. Port Entry, 2. Transit, 3. Overview. They should be added.

**NauticalProducts**

* It is proposed to add an attribute for the format of the data (GML, ISO8211, pdf, HTML, ePub, paper….). Useful for NP2 for example.
* S-100 Nautical Publications need an attribute editionNumber and if update datasets are used then updateDate and updateNumber should be added (tbc).
* An updateDate is need (for French sailing directions in pdf for example).

**ElectronicChart**

* It is proposed to add an attribute for the format of the data (GML, ISO8211, pdf, geotiff, tiff, ….). Useful for raster charts for example.
* Some kinds of electronic charts are the raster image of paper charts. It could be considered somehow as a version of the paper chart. Such electronic charts reflect inserts of the paper chart if any. The current model can not describe such product (raster chart with inserts).

**PaperChart**

* Add an INTchartNumber (see above)
* Up-to-dateness status of nautical paper chart should be given. An attribute updateNumber (text) should be added with an attribute updateDate.
* In France, we have possibly two versions for a paper chart: folded and not folded. Then, an attribut typeOfPaper is suggested with multiple texts (one text for one version).