

**XML of NtM NIPWG Workshop  
1 – 2 October 2018 – Genova, Italy**

Annex A: List of Attendees  
Annex B: List of Actions  
Annex C: Developed UML diagram

### **1.1 Opening remarks**

Jens SCHRÖDER-FÜRSTENBERG opened the workshop by welcoming the XML experts. He thanked the Italian Hydrographic Office for organizing the meeting.

Logistics and building safety were also discussed.

### **1.3 Introductions**

A brief introduction of the intended outcome of the workshop was given. The NIPWG chair highlighted the known limitations of the common XML.

## **2. Adoption of Workshop Agenda**

The meeting agreed at the proposed agenda. A particular agenda will not be provided as an annex. The Agenda followed the discussion structure of these minutes.

## **3. Description of current data exchange between neighbouring hydrographic offices**

1) Initiating HO→2) translation work→3) consuming HO

- 1) digital versions (Excel, XML), printed versions
- 2) done by external organisation or by consuming HO
- 3) make translations, convert information into internal file format

## **4. Application of current data exchange into the digital environment**

- The XML should be product neutral, no stylesheets.
- Data centric provision of XML
- The output layout structure should be on the consuming HO
- Basic style information supporting visualisation is allowed
- Position discussion: Considering that the way of providing position is important for information accuracy, the initiating HO should provide information on the data accuracy

## **5. Check of common NtM Content**

A common XML model was developed and adopted. An XSD will be created to validate the XML.

Agreement was made on:

- position data model

- Provision of description of positions allowed
- Use of plus and minus to distinguish between hemispheres
- Provision of position is optional (considering P&T Messages)
- Spatial indications should be provided as optional
- Location description
  - Three tags will be used (area, region, vicinity) optionally
  - The providing HO ensures that the tags will be delivered in English, noting that S-4 requires national naming of these tags
- P&T messages
  - Will be managed as normal chart correction, noting that they might have no positions and contain text
- Indication of national source (Asterix)
  - Needed to assess relevance of the notice by consuming HO
- Action (Instruction)
  - Using English versions only, referring to the list provided in S-4
- Symbol
  - A model was developed considering the latest MRN developments, noting that this required a long transition time and Secretariat involvement
  - As an intermediate solution symbols will be provided in several graphic formats and fonts
  - Symbol labels are not part of the symbol itself and will be provided in a separate tag
- Correction instruction
  - Free text describing what to do
- Composition of correction instruction
  - Depends on the topic either one or two combinations of Symbol/Symbol text/Correction instruction are allowed
  - Addition of a complex attribute pointing to an external file at the end of the composition (resource, type of file)

## **6. Development and Review of UML**

The UML, see Annex C, was improved reflecting the discussion. The current version is being considered as the starting point for the testing phase. Minor improvements will be made after the meeting.

## **7. Development of XSD file and XML**

The files will be generated after the meeting.

## **8. Actions to be taken:**

See Annex A.

## **Annex A: List of Actions:**

All

Check the completeness of the various enumeration values (31 October 2018)

Germany

A simplified DCEG will be developed which describes only UML components in details which are not bijective. (31 December 2018)

Jens

Finding a common repository and exchange mechanism for XML based corrections which should be hosted by the Secretariat. Each HO can deliver and receive the XML automatically (31 December 2018)

Draft a response paper to WWNWS-CG, distribute between participants for comments before submission (15 November 2018)

Stefan

Preparing an input paper for NIPWG6 (January 2019)

Testing phase

All

Each participating HO produces 10 different examples of NtM chart corrections which should be converted from their own XML to the common XML (31 January 2019)

Ludovico

Test to put the common XML information into CARIS publication module using Italian NtM structure as an output. (28 February 2019)

Daniel

Test to put the common XML information into CARIS publication module using German NtM structure as an output. (28 February 2019)

Daniel

Develop an XSLT to provide an HTML output of the examples. (28 February

Stefan

Develop a translation from the common XML format to RSS (tentatively, if time allows, potentially by 31 March 2019)

Rade

Test to put the common XML information into the Norwegian system and produce an output according the No NtM (31 March 2019)

Yong (on behalf of KHOA)

Test the common XML to generate an output in Korean/English language according to the Korean NtM style (31 March 2019)

All examples will be placed on the NIPWG wiki site.

Jens

Contact IHO Sec to find an appropriate place for providing the workshop output. That includes "best practice" XML for exchanging HO NtM data. (31 December 2018)

Initiate a follow-up workshop in September 2019 (exchange of experience, improve data model, consider additional requests)

Contact NIPWG6

Apply HSSC endorsement (noting that we reflect the outcome of the testing base)

## Annex B: List of Attendees

### IHO Member State

<b>Country</b>	<b>Organization</b>	<b>Participant</b>	<b>E-mail</b>
Finland	FTA	Stefan ENGSTRÖM	stefan.engstrom@fta.fi
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Norway	Kartverket	Rade STEVIC	rade.stevic@kartverket.no
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US	NGA	Lee anne GORDON	LeeAnne.E.Gordon@nga.mil

### Others

<b>Country</b>	<b>Organization</b>	<b>Participant</b>	<b>E-mail</b>
ROK	Other	Gyeongmin JO	gmjo@thepro.net

**Annex C:**  
 Developed UML diagram (see also [http://wp12183585.server-he.de/npubwiki/wiki/index.php/NtM\\_Chart-correction\\_XML#Format](http://wp12183585.server-he.de/npubwiki/wiki/index.php/NtM_Chart-correction_XML#Format) )

