

Paper for consideration by SNPWG18

Overview of the wiki work status

Submitted by:	SNPWG Chairgroup
Executive Summary:	Overview of the current work status of the SNPWG wiki
Related Documents:	http://wp12183585.server-he.de/npubwiki/wiki/index.php/Main_Page
Related Projects:	SNPWG product specifications; S-100 SNPWG17-16

Introduction / Background

The IHO introduced a registry based on S-100 in 2010. Although the SNPWG data model is at a very stable status, due to missing functionalities, the SNPWG objects and attributes are not sufficiently populated in the IHO Registry. Instead, the SNPWG has stored their relevant objects and attributes on the SNPWG wiki.

Analysis/Discussion

The wiki entries are being made in a way which heavily supports the product specification development in progress. In contrast to the IHO Registry, the wiki features contain information about their associated information features and attributes.

Additionally, the wiki contains additional information such as UML diagrams and Data Capture end Encoding Guides (DCEG) of the product specifications under development.

The following information pertains to certain wiki entries and their respective status of progress:

SourceIndication (Source Indication)

Following the S-101 DCEG interpretation, the Source Indication is no longer an attribute assigned to a particular feature. Rather, it was considered that the Source Indication is information which is important for the responsible HO. The source information should be provided by the Update Information (DCEG Baseline April 2014 item 3.11, 24.14).

The SNPWG source indication model bases on the assumption that the mariner might assess the quality of the publication information according to the source. The currently confirmed version can be found at <http://wp12183585.server-he.de/npubwiki/wiki/index.php/SourceIndication>

It is to discuss whether SNPWG should remain the current comprehensive model or if the simplified S-101 data model suffice the SNPWG intention and if it could be applied. The SNPWG has to prepare a paper to S-101 DCEG in both cases to reflect our harmonisation need; see Appendix 1.

GRAPHIC (Graphic)

The attribute remains unchanged except the deletion of SORIND, see <http://wp12183585.server-he.de/npubwiki/wiki/index.php/GRAPHIC>

TXTCON (Text Content)

SubAttributes:

Name	AlphaCode	CamelCase	Multiplicity	Sequential
Category of text	CATTXT	categoryOfText	1	n/a
Language	LANGGE	language	0..1	n/a
Headline	HEADLN	headline	0..1	n/a

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File locator	FILLOC	fileLocator	0..1	n/a
Information(text)	INFORM	information	0..1	n/a
Online Resource		onlineResource	0..1	n/a
Textual description	TXTDSC	textualDescription	0..1	n/a
Source Indication	SORIND	sourceIndication	0..1	n/a

BRGINF (Bearing information)

The proposal presented at SNPWG 17 was slightly amended by deleting Direction, Distance, fuzzy extension and by simplifying the Sector Limits. The new version can be found at <http://wp12183585.server-he.de/npubwiki/wiki/index.php/BRGINF>

Conclusions

The improvement of existing wiki entries proves the continuous development of the SNPWG data model. The results reflect the close co-operation with the S-101 DCEG Sub-WG.

More improvements are expected if the harmonisation of both data models of the SNPWG and the S-101 DCEG requires that.

Recommendations

SNPWG18 is invited to take note of the development.

Justification and Impacts

It is clear that the wiki entries should be transferred to the IHO Registry when their functionality allows that. Continuing the wiki work would have no significant impact on the current work level or level of engagement.

Action required of SNPWG17

The SNPWG17 is invited to:

- a. note this paper.
- b. support the wiki work.

Paper for Consideration by [TSMAD]

[Harmonisation between S-101 and SNPWG data model on update information]

Submitted by:	SNPWG
Executive Summary:	The update information model of both WG requires harmonisation
Related Documents:	S-101 DCEG baseline version April 2014
Related Projects:	S-101

Proposal Type

In the S-101 baseline version dated April 2014, the “update information” is indented to be used as a metadata feature which could be associated to all features if considered necessary.

Considering that the mariner is not really interested in seeing the reference to charted information, the purpose of this feature is to provide source information to the issuing HO. In addition, the feature provides a reference to the relevant NtM if updates to the information apply.

The SNPWG has been developed a more comprehensive data model. (1) **That model based on the assumption that the mariners assessing the quality of publication’s information according to the identity of the source.**

(2) **That model based on the assumption that the issuing HO may need more information on the source as background information.**

The harmonisation of the different data models could be done in two different ways. (1) One way could be the consideration of the adoption of the SNPWG data model by the S-101 DCEG or, (2) the definition of the sub-attribute “Update Reference” should be harmonised between the two different data models.

Type of Change Requested	Mark All that Apply
S-101 DCEG Change	
New/Amended Feature	x
New/Amended Complex Attribute	x
New/Amended Simple Attribute	x
New/Amended Information Type	
New/Amended Association/Aggregation/Composition	
New/Amended Enumerate Value	x
New/Amended Code List	

The SNPWG data model proposed with option (1) containing all components which have not been described by the S-101 DCEG is described in Annex A.

The amendments to the S-101 DCEG according to option (2) are in Annex B.

Justification and Impacts

Benefits:

- Harmonised data model through all product specifications.
- Or, less model variations of the same fact.

Required Resources:

- Email exchange
- no extra funding

Involved HSSC WG

- TSMAD

Due date:

- Next version of the S-101 DCEG

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Priority:

- high

Impact on work:

- update S-101 DCEG

Related activities:

- S-101
- any other product specification using Update Information or Source Indication

Action required of TSMAD

The TSMAD is invited to:

- a. consider the proposal.

Annex A:

Attribute: **Source Indication**, Alpha code: SORIND, Camel case: sourceIndication

Attribute type: Complex

SubAttributes:

Name	AlphaCode	CamelCase	Multiplicity	Sequential
Source Type	SORTYP	sourceType	0..1	n/a
Source	SOURCE	source	0..1	n/a
Reported date	REPDAT	reportedDate	0..1	n/a
Country	CONTRY	country	0..1	n/a
Category of Authority	CATAUT	categoryOfAuthority	0..1	n/a
Object Name	name	name	0..1	n/a

Attribute: **Source Type**, Alpha code: SORTYP, Camel case: sourceType

Attribute type: Simple

Data type: Enumeration

Expected input:

- 1 international law
- 2 publication issued by an international organisation
- 3 national law or regulation
- 4 publication issued by a national administration
- 5 local law or regulation
- 6 publication issued by a local administration
- 7 mariner report, confirmed
- 8 mariner report, not confirmed
- 9 industry publications and reports
- 10 remotely sensed images
- 11 photographs
- 12 products issued by HO services
- 13 news media
- 14 traffic data

Definitions:

- 1 treaty, convention, or international agreement; or European Union law
- 2 publication including graphics and charts issued by an international organisation
- 3 legislative or administrative law or regulation passed by a national government or national regulatory agency or authority
- 4 publication including graphics and charts issued by a national administration
- 5 legislative and administrative law or regulation passed by a national sub-division, for example a state, province, or local government or sub-national regulatory agency or authority
- 6 publication including graphics and charts issued by a local administration, such as local government or port authority
- 7 reported by mariner(s) and confirmed by another source
- 8 reported by mariner(s) but not confirmed
- 9 shipping and other industry publication including graphics and charts and web sites
- 10 information obtained from remote sensing devices
- 11 information obtained from photographs
- 12 information obtained from products issued by Hydrographic Offices
- 13 information obtained from news media
- 14 information obtained from the analysis of traffic data

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Attribute: **Source**, Acronym: SOURCE, Camel case: source

Attribute type: Simple

Data type: String

Definition:

The publication, document, or reference work from which information comes or is acquired.

Attribute: **Country**, Acronym: CONTRY, Camel case: country

Attribute type: Simple

Data type: String

Definitions:

The name of a nation. (Adapted from The American Heritage Dictionaries)

Attribute: **Category of authority**, Acronym: CATAUT, Camel case: categoryOfAuthority

Attribute type: Simple

Data type: Enumeration

Expected input:

- 1 customs
- 2 border control
- 3 police
- 4 port
- 5 immigration
- 6 health
- 7 coast guard
- 8 agricultural
- 9 military
- 10 private company
- 11 maritime police
- 12 environmental
- 13 fishery
- 14 finance
- 15 maritime

Definitions:

1 the agency or establishment for collecting duties, tolls (Merriam-Websters online Dictionary 23rd February 2006, amended)

2 the administration to prevent or detect and prosecute violations of rules and regulations at international boundaries (adapted from Merriam-Websters online Dictionary 23rd February 2006)

3 the department of government, or civil force, charged with maintaining public order (Adapted from OED)

4 person or corporation, owners of, or entrusted with or invested with the power of managing a port. May be called a Harbour Board, Port Trust, Port Commission, Harbour Commission, Marine Department (NP 100 8th Edition 14 Oct 2004)

5 the authority controlling people entering a country

6 the authority with responsibility for checking the validity of the health declaration of a vessel and for declaring free pratique

7 the organisation keeping watch on shipping and coastal waters according to governmental law; normally the authority with responsibility for search and rescue

8 the authority with responsibility for preventing infection of the agriculture of a country and for the protection of the agricultural interests of a country

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- 9 a military authority which provides control of access to or approval for transit through designated areas or airspace
- 10 a private or publicly owned company or commercial enterprise which exercises control of facilities, for example a calibration area
- 11 a governmental or military force with jurisdiction in territorial waters. Examples could include Gendarmerie Maritime, Carabinieri, and Guardia Civil
- 12 an authority with responsibility for the protection of the environment
- 13 an authority with responsibility for the control of fisheries
- 14 an authority with responsibility for the control and movement of money
- 15 a national or regional authority charged with administration of maritime affairs

Annex B

<u>IHO Definition:</u> UPDATE INFORMATION . The Update Information feature is used to represent a change to the information shown.				
S-101 Metadata Feature: Update Information				
Primitives: Point, Curve, Surface				
<i>Real World</i>	<i>Paper Chart Symbol</i>	<i>ECDIS Symbol</i>		
S-101 Attribute	S-57 Acronym	Allowable Encoding Value	Type	Multiplicity
Update description			C	1,*
Language		ISO 639-3	(S) TE	0,1
Text			(S) TE	0,1
Source			S	0,1
Scale Minimum	SCAMIN		IN	0,1
Feature associations				
Role Type	Association Name	Role	Features	Multiplicity
Association	Updated Information	Updates	All Geo Features	0,*
<u>INT 1 Reference:</u>				
X.X.X Sub-clause heading(s) (see S-4 – B-YYY.Y)				
3.11.1 Update information				
If it is required to encode information about changes made to ENC data it must be done using Update Information . This feature must be encoded to cover the extent of changed data incorporated in the SENC via ENC Updates (ER Application Profile), and may also be used to indicate changes introduced in ENC New Editions. It carries information about the changes. Update Information may be associated with features which have changed using the association Updated Information (see clause X.X).				
<u>Remarks:</u>				
<ul style="list-style-type: none"> • The mandatory attribute update description must be used to provide a brief textual description of the changes to the dataset included in the Update. If a more detailed description of the Update is required, this should be encoded using an associated instance of the information type Supplementary Information (see clause X.X), complex attributes information or textual description. • The attribute Source may be used to indicate the related paper chart notice to mariner's number. • At each new edition of an ENC cell Update Information features which are no longer relevant must be deleted. • Where information has been deleted from an ENC the Update Information feature should cover the extent of the deleted information. 				
<u>Distinction:</u> Information area; caution area.				

For detailed description of the proposed "source" attribute please refer to Annex A.