S-100TSM5-4.3

# S-100 Registry Improvement

18<sup>th</sup> - 20 Sep 2017 KHOA



### Introduction

 This paper reports on S-100 Registry improvement and future plans following the request of the 2<sup>nd</sup> S-100 WG meeting in Genoa, Italy.

### Introduction

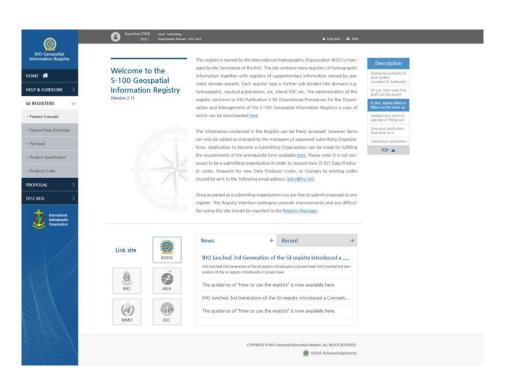
- KHOA developed a new interface and database of two registers (FCD, Portrayal) for S-100 GI Registry, last year.
- NEW requirement
  - Concept Register
  - Improve approval process
  - Other registers (Producer code, Product specification)
  - Test Bed
  - Feedbacks and lessons learn from the registry operation



# **NEW GI registry**

# 2<sup>nd</sup> S-100 GI Registry

- 1. FCD Register
- 2. Portrayal Register

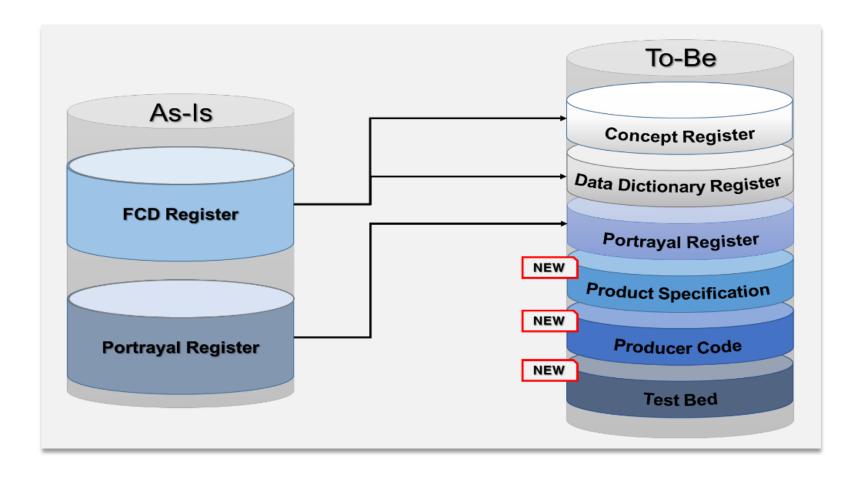


# 3<sup>rd</sup> S-100 GI Registry

- 1. Concept Register
- 2. Data Dic. Register
- 3. Portrayal Register
- 4. Product Specification
- 5. Producer Code
- 6. Test Bed

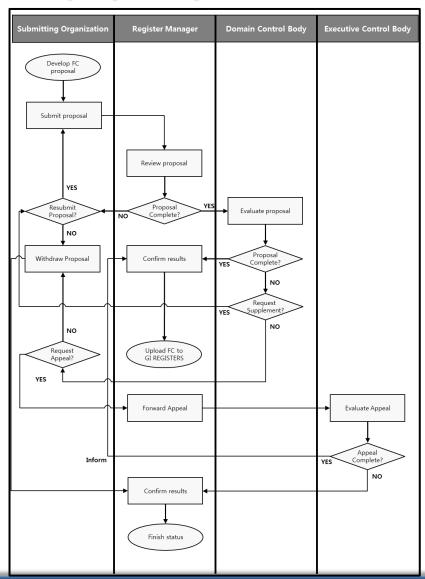


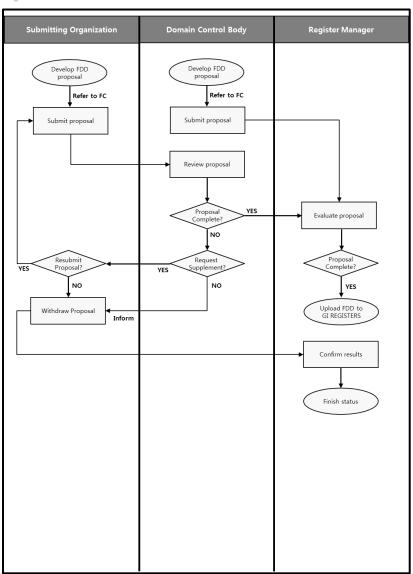
# proposed S-100 Database





# New proposal process of Concept, Data Dic.







### Registry improvement

### Concept Register

Present FCD register has non-harmonized data issue which various overlapped items have been consistently proposed in different domains even if their name, definition and camelcase is the same. CR has been introduced which common matters (name, definition, camelcase, etc.) are registered in concept step to fix this issue.

### Data Dictionary Register

In DD register, concepts which were registered in CR could be registered into registry database by designating its item type (ex., feature or attribute etc.) and submitting additional information.



### Registry improvement

### Portrayal Register

Presentation colour of symbols has been improved by CSS (Cascading Style Sheets) file replacement and this improvement had a validation check through test registry server. Preview image error of BLOB type was fixed using images from 7cs.

### Product Specification Register

Product specification register has been introduced to manage various products based on S-10X and share product specification files for related S-100 systems.



### Registry improvement

### Producer Code Register

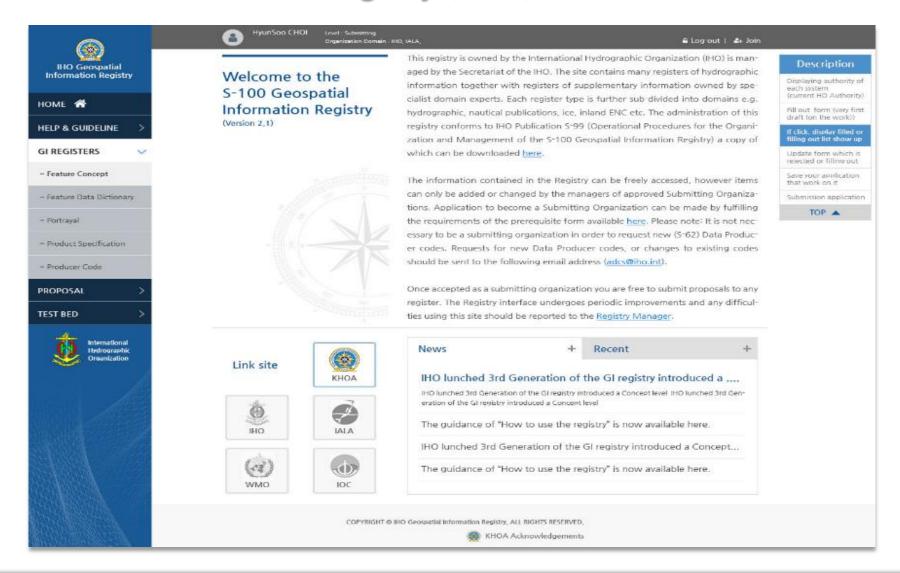
The producer code service will be developed in the GI registry as present IHO data producer codes website.

#### Test Bed

Test bed webpage will be developed in order to share the test catalogue and test data sets for developing Product Specifications.



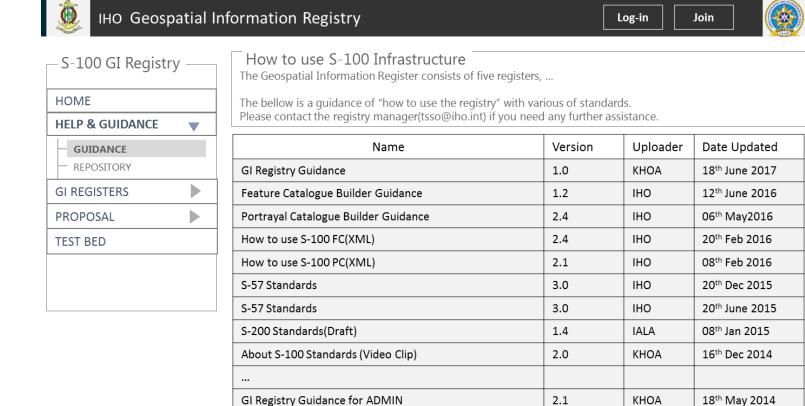
# New interface of S-100 registry (main)





# New interface of S-100 registry (Repository)

< 1 ... 4 5 6 ... 9 >



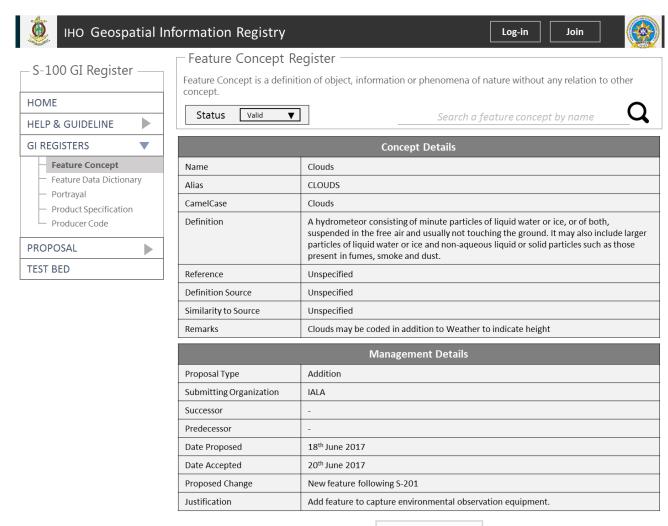
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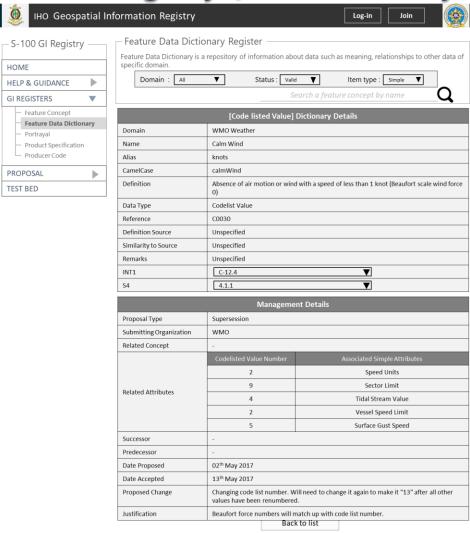
# New interface of S-100 registry (Concept Register)



Back to list

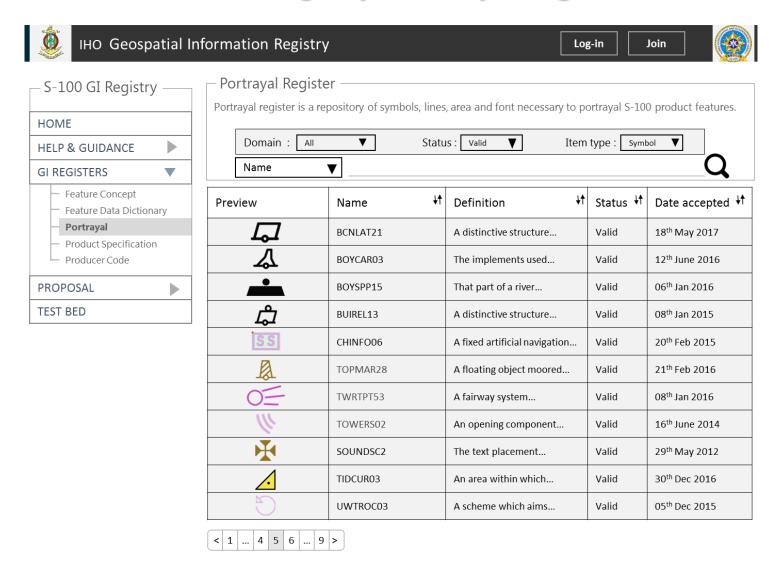


# New interface of S-100 registry (Data Dictionary Register)





# New interface of S-100 registry (Portrayal register)





# New interface of S-100 registry (Product Spec. register)



#### **IHO** Geospatial Information Registry

Log-out

Join

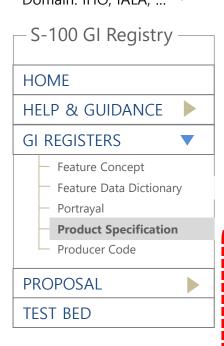






Product Specification Register is a repository of S-100 based product specification including metadata, feature catalogue, portrayal catalogue and Data Clarification and Encoding Guide (DCEG).

Domain : All ▼ Name ▼ \_\_\_\_Q



ID <b>↓</b> ↑	Version	Name ₩↑	Domain	Status <b>\↑</b>	Date accepted₩↑				
S-101	1.2	ENC	IHO	Ready	18 <sup>th</sup> May 2017				
S-102	2.0	Bathymetric surface	IHO	Ready	12 <sup>th</sup> June 2016				
S-104	1.0		IHO	Ready	06 <sup>th</sup> Jan 2016				
S-111	1.1		IALA	Ready	08 <sup>th</sup> Jan 2015				
S-114	1.0		IALA	Test	20 <sup>th</sup> Feb 2015				
S-128	24		WMO	Test	21 <sup>th</sup> Feb 2016				
Management Details									
Version		1.2	Down						
Version Date		06 <sup>th</sup> Jan 2016							
S-100 Version		3.0.0							
Status		Approved							
Feature Catalogue		0.8.11			Down				
Portrayal Catalogue		0.8.12			Down				



# New interface of S-100 registry (Test Bed)



#### **IHO** Geospatial Information Registry

Log-in

Join





Test Bed

Welcome to the S-100 Test Bed.

Purpose of the Test Bed are as below.

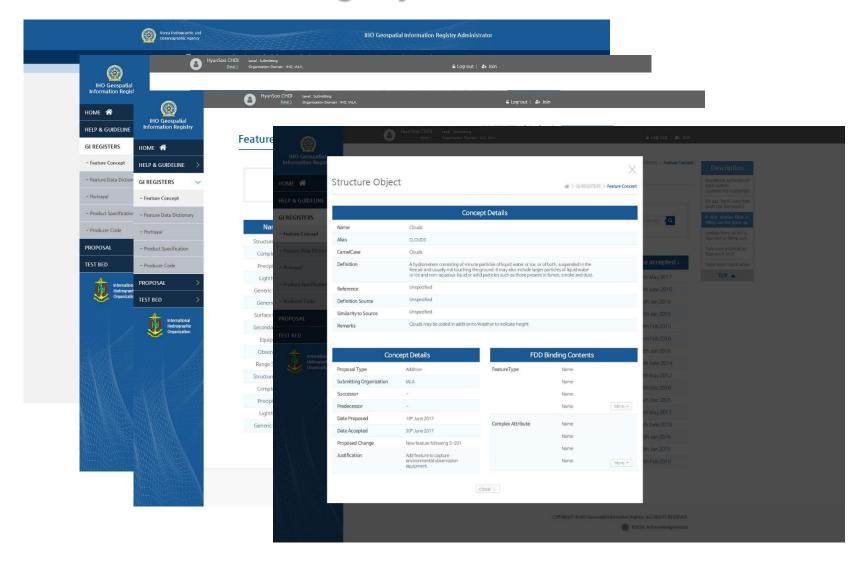
- 1. Provide a framework and infrastructure for Product Specification Developers
- 2. Receive feedback by relevant stakeholders and provide opportunity for preparation on their system improvement..
- 3. Share outcomes of the test bed to meet IHO M-3 2/2007 resolution

S-100 GI Register							
HOME							
HELP & GUIDELINE							
GI REGISTERS ▼							
<ul> <li>Feature Concept</li> <li>Feature Data Dictionary</li> <li>Portrayal</li> <li>Product Specification</li> <li>Producer Code</li> </ul>							
PROPOSAL							
TEST BED							

ID	Title		Version	Status	Organization		
S-101	ENCs		0.8.7	Ready	S-100WG		
Details							
Draft Version		1.2	Down				
Version Date		06 <sup>th</sup> Jan 2016					
S-100 Version		3.0.0					
Status		Ready / Testing / Competed/Approved (4개 중 1개 선택)					
Feature Catalogue		0.8.11 Down					
Portrayal Catalogue		0.8.12 Upload Down					
Date Started							
Date End (Scheduled)							
Test Scenario		Enter text		Upload own	<u> </u>		
Test Data Sets		Enter text		Upload Down			
Test Results		Enter text		Upload Down			



# New interface of S-100 registry





#### **Discussion**

- Domain concept: Items (Data Dictionary and Portrayal) do not belong to each submitted domain according to Concept Register. Any items can be used in whole domain and this concept should be applied to portrayal register.
- 2) S-32 Hydrographic Dictionary: S-32 DB or website needs to be connected to concept register.
- 3) NEW registry will be made available after the test operation in early 2018.



# **Action Required of S-100 TSM**

The S-100 TSM5 is invited to:

- a) Note the progress reported in this paper
- b) Discuss pending issues brought up in this paper.



# Thank you

