

S-100 Working Group 3

# S-100 GI Registry 3.0 edition

**S-100WG / KHOA**

Presented by Vice chair S-100WG (Yong BAEK)



# GI registry Improvement (1/10)

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- **Status of the GI registry**

- 1<sup>st</sup> phase: Initial interface and DB for FCD (~2015)
- 2<sup>nd</sup> phase: Update FCD, new Portrayal register (2015~2016)
- 3<sup>rd</sup> phase: new Concept register, new GI registry (2017~)

- **New results of 3<sup>rd</sup> phase**

- Concept register
- Improve approval process (Data Dictionary register, Portrayal register)
- Other registers (Producer code, Product specification)
- Test Bed



# GI registry Improvement (2/10)

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

1. FCD Register
2. Portrayal Register



## 3rd S-100 GI Registry

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



### Welcome to the S-100 Geospatial Information Registry (Version 2.1)

This registry is owned by the International Hydrographic Organization (IHO) and is managed by the Secretariat of the IHO. The site contains many registers of hydrographic information together with registers of supplementary information owned by specialist domain experts. Each register type is further sub-divided into domains e.g. hydrographic, nautical publications, ice, inland ENC etc. The administration of this registry conforms to IHO Publication S-99 (Operational Procedures for the Organization and Management of the S-100 Geospatial Information Registry) a copy of which can be downloaded [here](#).

The information contained in the Registry can be freely accessed, however items can only be added or changed by the managers of approved Submitting Organizations. Application to become a Submitting Organization can be made by fulfilling the requirements of the prerequisite form available [here](#). Please note: It is not necessary to be a submitting organization in order to request new (S-62) Data Producer codes. Requests for new Data Producer codes, or changes to existing codes should be sent to the following email address [ads@iho.int](mailto:ads@iho.int).

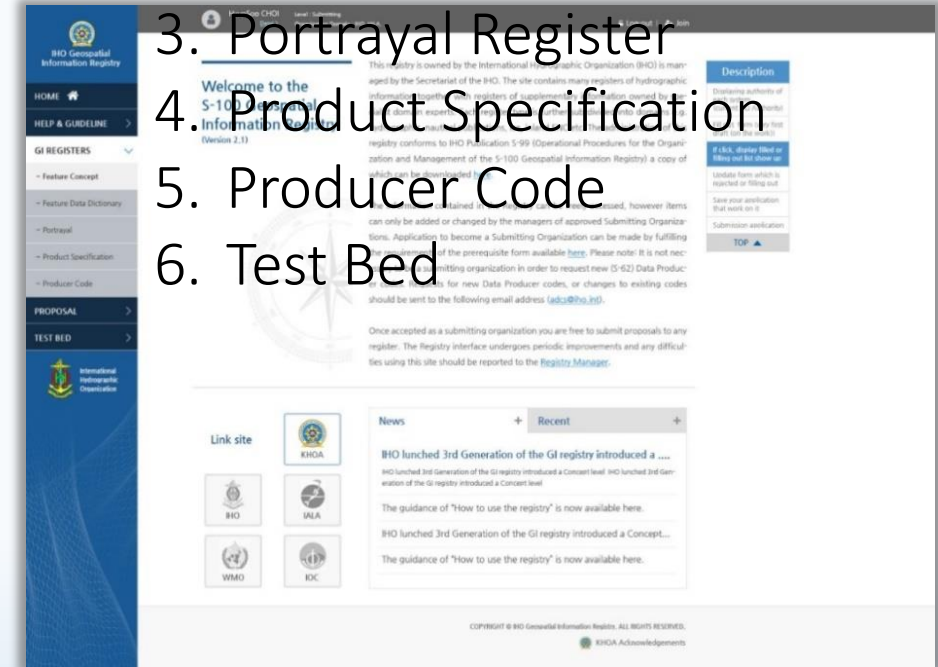
Once accepted as a submitting organization you are free to submit proposals to any register. The Registry interface undergoes periodic improvements and any difficulties using this site should be reported to the [Registry Manager](#).

#### Feature Concept Dictionary Register according to S-100

No.	Type	Valid	Superseded	Retired
1	Feature Type	294	237	267
2	Information Type	1	0	0
3	Simple Attribute Type	500	204	61
4	Enumerated Type	3050	465	151
5	Complex Attribute Type	37	0	1
6	Code List Type	1	0	0
7	Code List Value Type	2	0	0

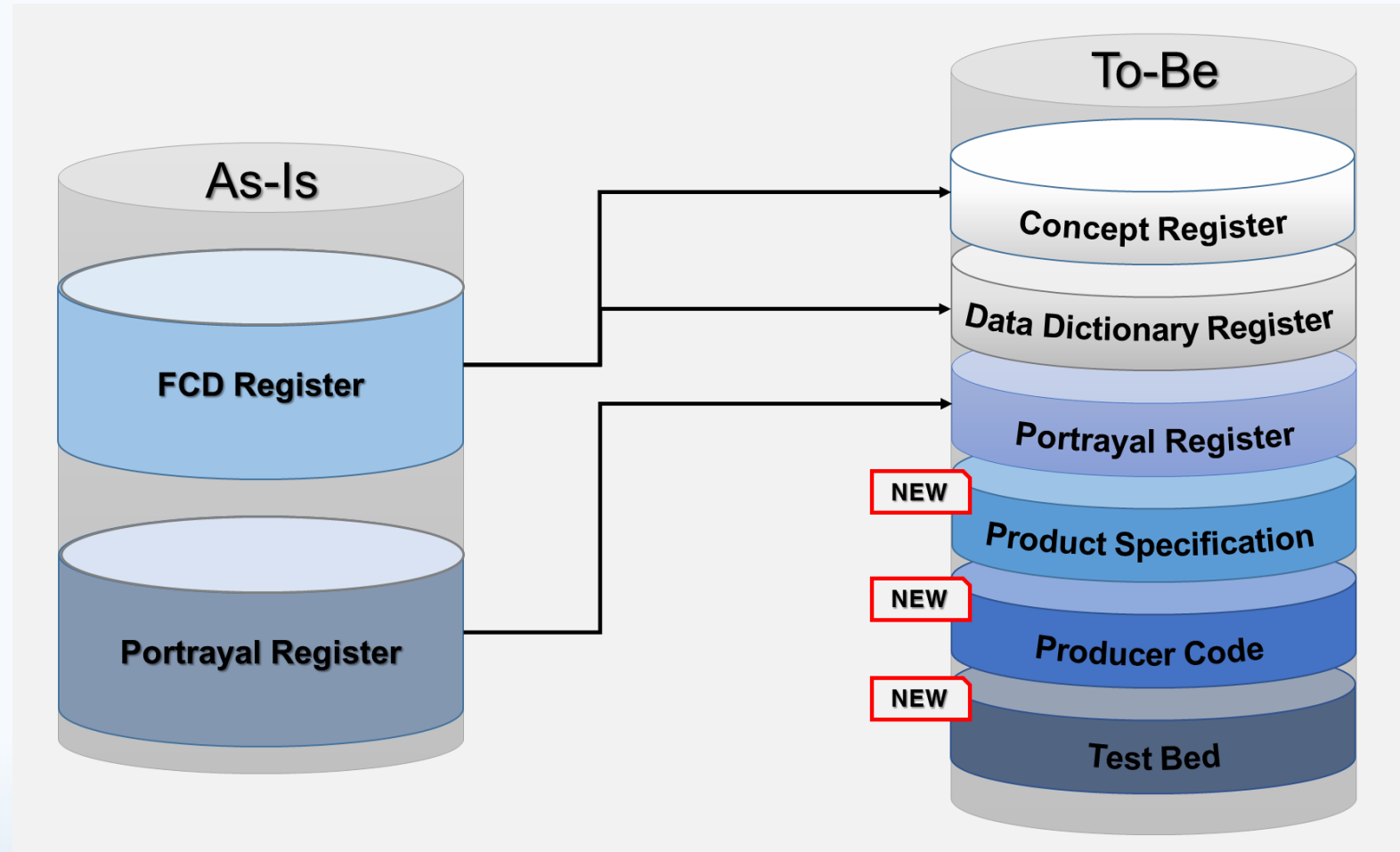
#### Portrayal Register

No.	Type	Valid	Superseded	Retired
1	Symbol	572	0	0
2	Line Style	55	0	0
3	Area Fill	26	0	0
4	Font	4	0	0



# GI registry Improvement (3/10)

- **Modified DB**



# GI registry Improvement (4/10)

- Improved register

**S-100 Geospatial Information Registry**  
**Concept Register**

Home / GI REGISTERS / Concept Register

Concept is a definition of object, information or phenomena of nature without any relation to other concepts.

No	Name	Camelcase	Definition
21	vesselSpeedLimit	iceDriftToW	The maximum allowed rate of travel for a vessel
22	Orientation Complex	iceDriftToNW	The angular distance measured from true north
23	Light sector Complex	iceDriftToN	A sector is the part of a circle between two straight
24	Features detected Complex	iceDriftToW	The uniform assessment of detected features.
25	Vertical clearance open Complex	iceDriftToNW	The vertical clearance measured from the horizon
26	Shape Information	iceDriftToN	Textual information about the shape of a non-sta
27	TEST1	TEST1	TEST1
28	Clouds	Clouds	A hydrometeor consisting of minute particles of liquid water or ice, or of both, ...
29	Complex Sea	ComplexSea	Area where the direction of the significant waves opposes the surface current, ...
30	SpatialQuality	SpatialQuality	Unspecified.
31	icedrift or Iceberg Direction	levelIce	ICELVL is an indication as to whether or not the ice has been affected by defor...
32	Ice Drift to NE	iceDriftToNE	Unspecified
33	Ice Drift to S	iceDriftToS	Unspecified

**Portrayal Register**

Home / GI REGISTERS / Portrayal

Symbol 574 Line Style 55 Area Fill 26 Font 3

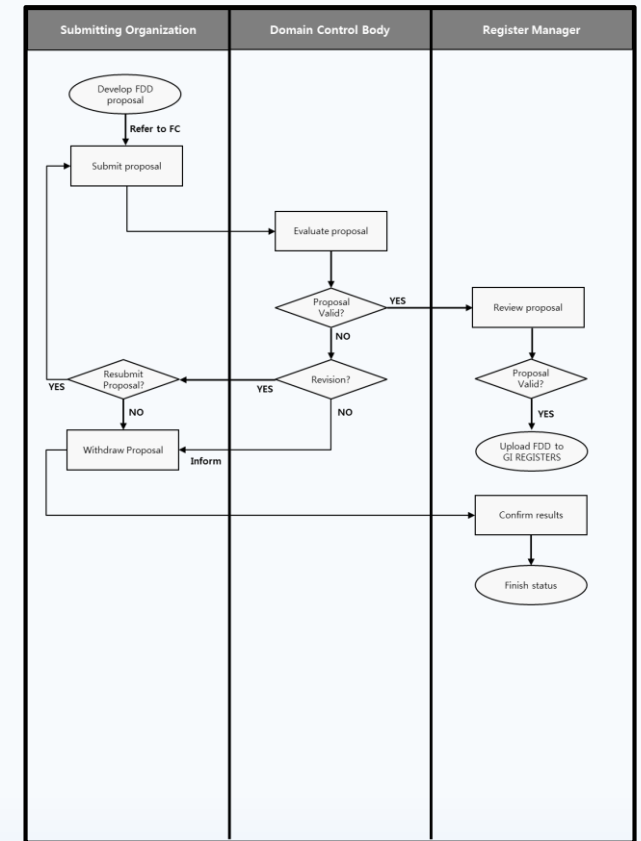
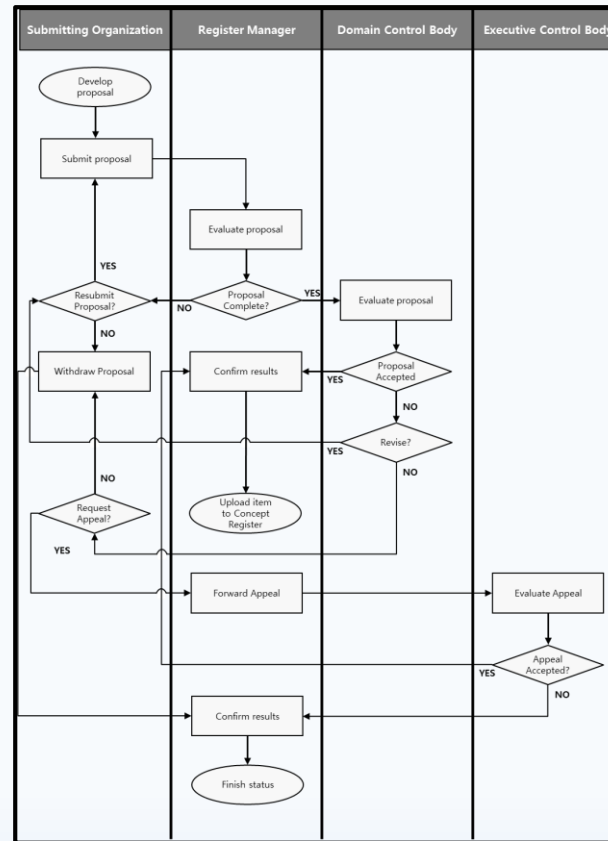
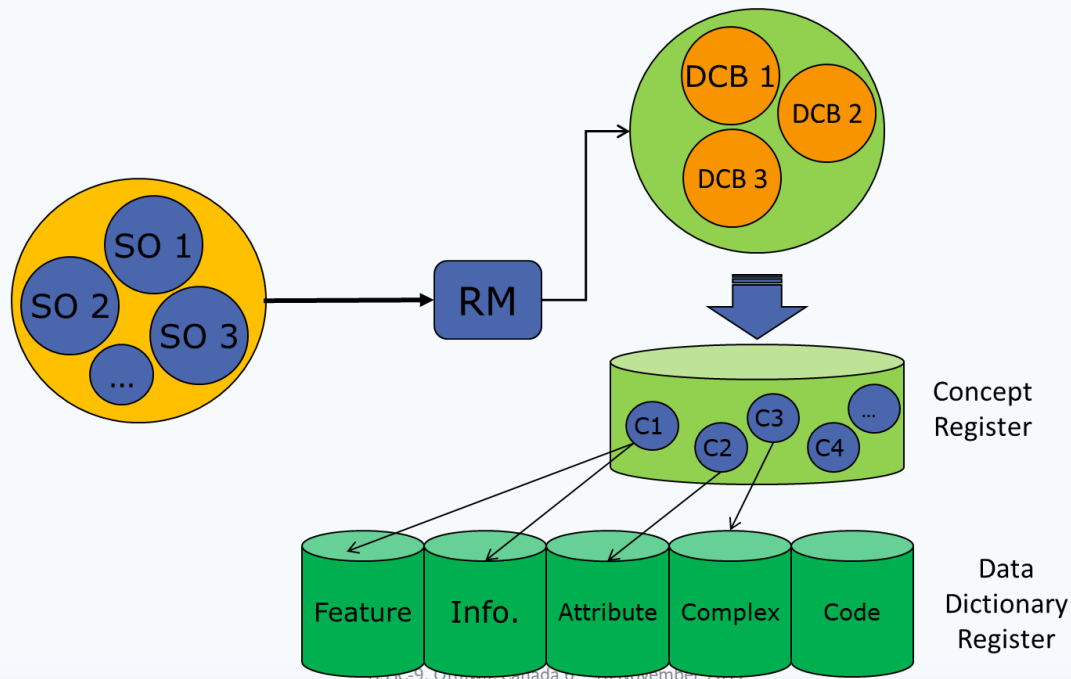
Domain ALL Status Valid Category Name

No	Preview	Name	Definition	Item Type	Status	Date Accepted
1		ACHARE02	anchorage area as a point at small scale, or anchor points of mooring trot at large scale	symbol	Valid	-
2		ACHARE51	anchorage area	symbol	Valid	-
3		ACHBRT07	designated anchor berth for a single vessel	symbol	Valid	-
4		ACHRES51	area where anchoring is prohibited or restricted	symbol	Valid	-
5		ACHRES61	area where anchoring is prohibited or restricted, with other cautions	symbol	Valid	-
6		ACHRES71	area where anchoring is prohibited or restricted, with other information	symbol	Valid	-
7		AIRARE02	symbol for airport as a point	symbol	Valid	-
8		AIRARE02P	pattern of symbols for an airport area	symbol	Valid	-
9		BCNCAR01	cardinal beacon, north, simplified	symbol	Valid	-
10		BCNCAR02	cardinal beacon, east, simplified	symbol	Valid	-



# GI registry Improvement (5/10)

## • Proposal process



# GI registry Improvement (6/10)

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- **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 (eg. feature or attribute, etc.) and submitting additional information.



# GI registry Improvement (7/10)

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- **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.





# GI registry Improvement (8/10)

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- **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.



# GI registry Improvement (9/10)

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- **Guidance and Repository**

Various of guideline, manual, IHO standards are provided through the Guidance page. All users of registry can download these documents.

Repository page is for software, tools related to S-10X standard, product specification, S-100 infrastructure.

- **Notification and Status Information**

At the main page of registry, users may check registered proposal at each register and development status of product specification. Administrator of registry can note a brief notification about registry.



# GI registry Improvement (10/10)

- **New interface (Demo)**

HyunSoo CHOI  
Level: Submitting  
Organization Domain: IHO, IHOA

Log out | Join

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**Description**

- Discontinue authority of each system (current IHO Authority)
- Fill out form (very first draft (on the work))
- If click, display filled or filling out list (show or hide)
- Update form which is rejected or filling out
- Save your application (that work on it)
- Submission application

**Link site**

- KHOA
- IHO
- IALA
- WMO
- IOC

**News** + **Recent** +

**IHO launched 3rd Generation of the GI registry introduced a ....**

IHO launched 3rd Generation of the GI registry introduced a Concept level. IHO launched 3rd Generation of the GI registry introduced a Concept level.

The guidance of "How to use the registry" is now available here.

IHO launched 3rd Generation of the GI registry introduced a Concept...

The guidance of "How to use the registry" is now available here.

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KHQA Acknowledgements

