

#### Hydrographic Services and Standards Committee

# Report on Improvement of the S-100 Registry and Registry Interface Demonstration

HSSC-8

Agenda 5.1

KHOA / IHO Secretariat

## Background

- + <u>S-100</u> provides the data framework for the development of the next generation of hydrographic-related products such as ENC, Nautical Publications, Ice, Weather, Tides, Currents .....; as well as other digital products required by the maritime and other GIS communities.
- + S-100 Infrastructure currently consists of:
  - S-100 Geospatial Information (GI) Registry
  - S-100 Feature Catalogue Builder (FCB)
  - S-100 Portrayal Catalogue Builder (PCB)



## Background (2)

- + <u>S-100 Geospatial Information(GI) Registry</u> is the entire information system in which the collection of hydrographic-related Registers are located.
  - <u>Current Registers:</u> Feature Concept Dictionary; Portrayal;
     [Metadata]; Product Specification; and Data Producer Code.
- + KHOA has continued to support the development of the new Registry



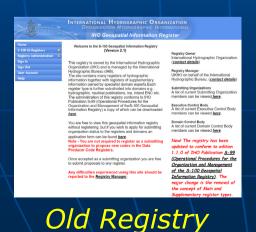




## Progress on Improvement of S-100 Registry

- + Improvement of the Registry Interface (since HSSC-7):
  - Feature Concept Dictionary Register and Portrayal Register (partly).
  - S-99 proposal procedures, sand box and management functions etc... (Ref: S-100WG1 9.1A (Mar 2016) and S-100TSM4 5.1A (Sep 2016)).
  - 2 live trials (Feb Mar, Aug -Sep 2016).
  - IHO Registry Manager (TSSO) Commenced 03 Oct 2016.

Operational from Oct 2016







New Registry



## Progress on Improvement of S-100 Registry (2)

- + Registration of New Items (FCD Register)
  - Proposals to IHO Hydro, WMO Weather Domains:
    - 17 Features; 163 Attributes (Simple and Complex); 199 Enumerates.
  - 330 Proposals processed with 55 Rejected.
  - New Submitting Organization and Domain Control Body requests for the WMO Weather, IALA and WMO Ice Domains.
- Enhancements to the Registry Interface (in progress)
  - More "user friendly";
  - Automated feedback functionality ("push" rather than "pull");
  - Guidelines for Registry/Register Manager(s); Submitting
     Organizations; Domain Control Bodies.

### Future work items

### + S-100 GI Registry

- FCD Register
  - Completion of S-101 item registration to support FCB and PCB (in progress);
  - Review of Concept Dictionary data model and proposal procedure (implementation of S-99);
- Portrayal Register (end of 2016);
- Product Specification Register (required);
- Data Producer Code Register (required);
- Metadata Register (on hold);
- Review of S-99 based on "lessons learned" (required).



## Future work items (2)

- + Connection with S-100 FCB and PCB
  - S-100 FCB connection (end of 2016);
  - S-100 PCB setup and connection (required).

[Refer to the S-100WG Report]



### **Demonstration**



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

This registry is owned by the International Hydrographic Organization (IHO) 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 <a href="https://downloaded.here.">here</a>.

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 <a href="here">here</a>. Please note: It is not necessary to be a submitting organization in order to request new (5-62) Data Producer codes. Requests for new Data Producer codes, or changes to existing codes should be sent to the following email address (<a href="here">address (adcs@iho.int)</a>.

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	289	237	267
2	Information Type	1	0	0
3	Simple Attribute Type	<u>472</u>	202	50
4	Enumerated Type	2912	465	151
5	Complex Attribute Type	<u>36</u>	0	1
6	Code List Type	0	0	0
7	Code List Value Type	0	0	0

#### Portrayal Register

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

Registry Owner	Registry Manager	Register Managers
Submitting Organizations	Executive Control Body	Domain Control Body



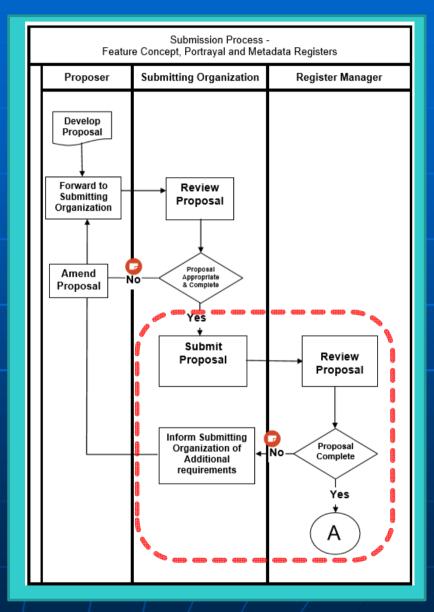


## Demonstration(2)

+ Proposal process (FCD Rrgister):

Proposer(SO) → submit →
Reviewed(RM) → forward →
Decision(DCB) → Finalise(RM)
→ Available for Use

#### S-99: Operational Procedure



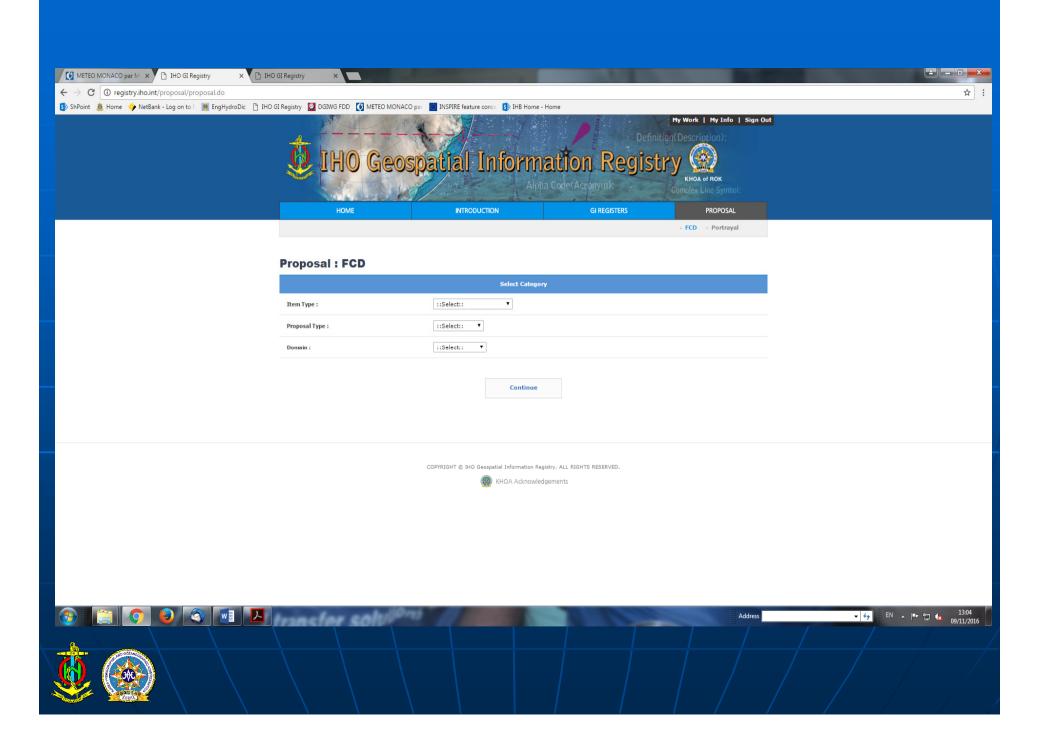


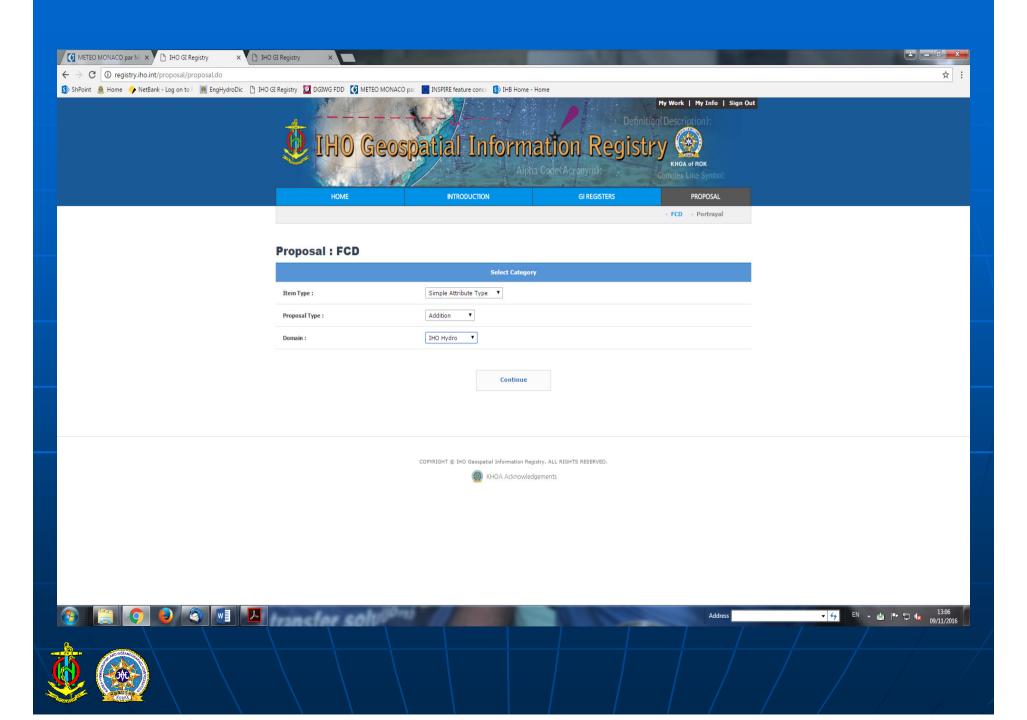


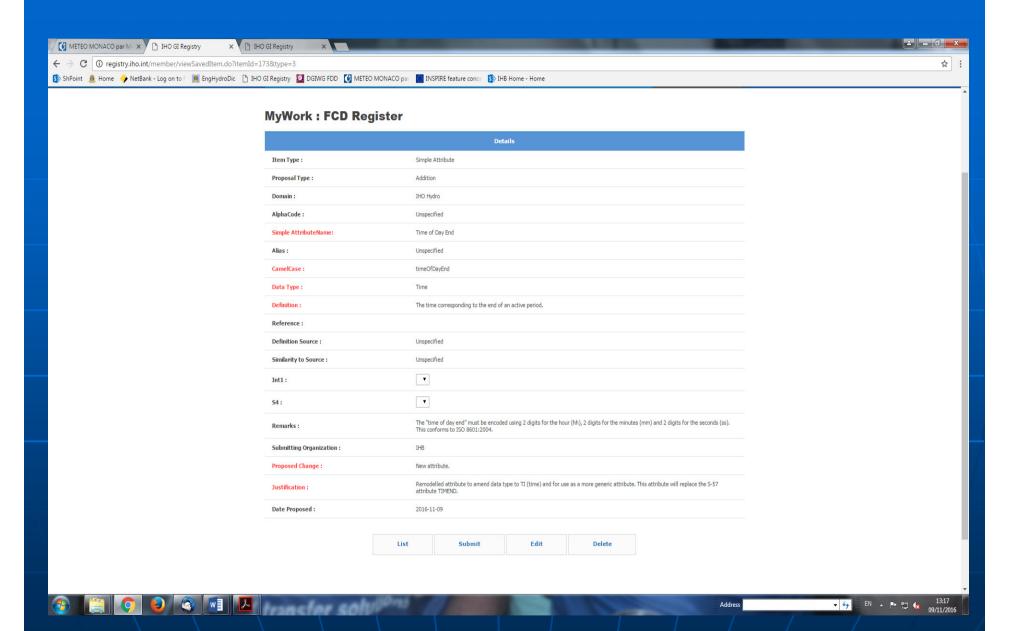
## Action requested of HSSC

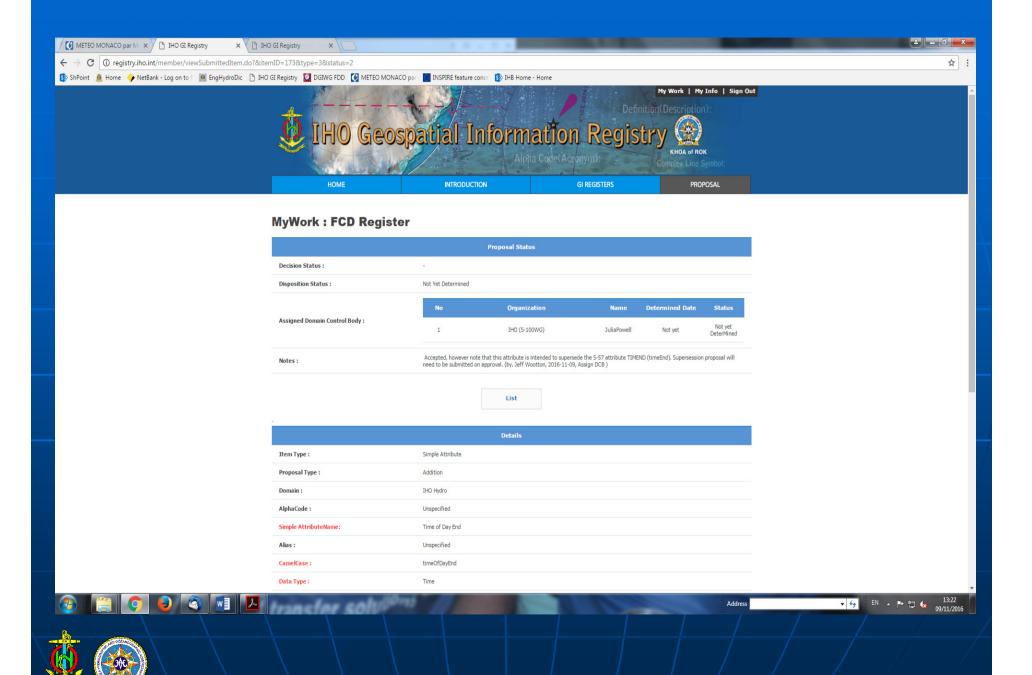
- Note progress made on the IHO GI Registry since HSSC7.
- Acknowledge the work of the Republic of Korea (KHOA) regarding the improved S-100 Registry;
- Request KHOA to support further development on S-100 Registers (Product Specification; Data Producer Registers) and stabilization of the FCD and Portrayal Register.











#### MyWork: FCD Register

Proposal Status	
Decision Status :	-
Disposition Status :	Not Yet Determined
Notes:	Accepted, however note that this attribute is intended to supersede the S-57 attribute TIMEND (timeEnd). Supersession proposal will need to be submitted on approval. (by. Jeff Wootton, 2016-11-09, Assign DCB)

List Accept Reject Supplement

 Details

 Item Type :
 Simple Attribute

 Proposal Type :
 Addition

 Domain :
 IHO Hydro

 AlphaCode :
 Unspecified

 Simple AttributeName:
 Time of Day End



#### MyWork: FCD Register

Proposal Status	
Decision Status :	
Disposition Status :	Accepted
Notes:	Accepted, however note that this attribute is intended to supersede the S-57 attribute TIMEND (timeEnd). Supersession proposal will need to be submitted on approval. (by. Jeff Wootton, 2016-11-09, Assign DCB ) (by. Julia Powell, 2016-11-09, Accept )

List

	Details
Item Type :	Simple Attribute
Proposal Type :	Addition
Domain:	IHO Hydro
AlphaCode :	Unspecified
Simple AttributeName:	Time of Day End
Alian	Harmonified





