



Hydrographic Services and Standards Committee

S100 Registry Management Way Forward

HSSC7-05.1B

Introduction

The IHB submitted a paper at the final TSMAD meeting documenting the results of CL 77/2014 suggesting the following arrangements:

- IHB to appoint Ms Su Marks as Registry Manager upon retirement of Mr Barrie Greenslade, in accordance with the provisions of IHO Publication S-99;
- Outgoing and ingoing Registry Manager to plan and implement an handover period for administration tasks, in liaison with the IHB;
- S-100WG to identify issues requiring initiating development tasks before the end of 2015 and, if relevant, elaborate a short term development plan in connection with the adoption of S-100 Edition 2.0.0, taking into account the offers of ROK and USA;
- S-100WG to review the options to continue the operation and development of the Registry beyond 31 December 2015 in connection with the preparation of the IHO Budget for 2016;
- S-100WG to report to HSSC-7



IHO GI Registry

Registers – Feature Concept Dictionaries

- Hydro

- NPUBs

- ICE

- MIO

- InlandENC

- PENC

- AIS

- ATONs

- VTS

- WXO (Weather)



IHO GI Registry

- ✦ Portrayal Register
- ✦ Metadata Register
- ✦ Data Producer Codes
- ✦ Product Specification



IHO Register (Current Status)

- ✦ Feature Concept Dictionary
- ✦ Portrayal



IHO FCD (Current Status)

- NOAA is in the process of fixing interface issues on a clone server
- Attribute proposal mechanism is broken
- Hope to have the fixes completed, tested and deployed by November.



Feature Catalogue Builder

- ✦ Developed by KHOA
- ✦ Connecting to a test version of the database
- ✦ IEHG has tested the functionality and have found some issues
- ✦ Once the register is upgraded to S-100 2.0.0 the FCB will establish a connection and be made available for product specification developers



IHO Feature Concept Dictionary (future plans)

- ✦ Needs to be updated to S-100 2.0.0
 - Codelist support and other changes to the model
- ✦ FCB will need to connect to the updated Register
- ✦ Will include updating the proposal and administration interfaces
- ✦ Estimated Completion – late 2015



S-100 GI Registry

- ✦ KHOA is funding the rebuild of the interfaces
- ✦ Utilizing their national registry as a baseline



국립해양조사원 KHOA
Korea Hydrographic and Oceanographic Administration

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Korea Marine Geospatial Information Registry



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FCD REGISTER
PORTRAYAL REGISTER

국립해양조사원은 해양조사 정보의 표준화를 위해 S-100 Geospatial Information Registry 시스템을 운영하고 있습니다.

본 시스템은 해도 정보 Register 뿐만 아니라 해도 관련 분야의 Register를 포함하고 있습니다. (예시 : 해도분야, 서지 분야, 내수면 분야, 기상정보, 해양부가정보 분야 등등) S-100 GI Registry 시스템은 국제수로기구(IHO) S-99(S-100 GI Registry의 조칙과 관리에 관한 운영 절차) 표준을 참조하여 개발되었으며, 주된 목적은 해양조사 분야의 정보 표준화이나, e-Navigation 등의 해상안전 및 해양환경 보호 목적으로도 활용할 수도 있습니다.

▶ Feature 등록 및 관리 현황

번호	종류	Valid	Superseded	Retired	Invalid	Proposed
1	Feature Type	233	232	221	1	1
2	Information Type	2	0	0	1	0
3	Attribute Type	637	0	0	0	10
4	Enumerated Type	2996	465	161	288	0
5	Complex Attribute Type	52	0	0	0	0
6	Code List Type	0	0	0	0	0

▶ Symbol 등록 및 관리 현황

번호	종류	Valid	Superseded	Retired	Invalid
1	Point Symbols	581	0	0	2
2	Patterns Symbols	26	0	0	0
3	Complex Line Symbols	55	0	0	0
4	Colour Symbols	64	0	0	0
5	Shape Symbols	182	0	0	0

▶ Product Specification 등록 및 관리 현황





Korea Marine Geospatial Information Registry



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PROPOSAL

ADMINISTRATION

· FCD · Portrayal · Product Specification

Proposal : FCD

Writing Type

Item Type :

Feature Type ▼

Proposal Type :

Addition ▼

Domain :

HYDRO ▼

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IHO Portrayal Register (current status and future plans)

- ✦ Existing tables did not leverage RDMS design patterns
- ✦ Incompatible with the model outlined in S-100 edition 2.0.0
- ✦ IHB contracted Caris to provide a new portrayal register database



Proposal : Portrayal

Portrayal Details

* Domain:	<input type="text" value="Choose one"/>
* Item Type:	<input type="text" value="Point Symbols"/>
* Alpha Code(Acronym):	<input type="text"/>
Definition(Description):	<input type="text"/>
Remarks:	<input type="text"/>
Accepted:	<input type="checkbox"/> <input type="button" value="📄"/>
Amended:	<input type="checkbox"/> <input type="button" value="📄"/>
Pivot Point:	<input type="text"/>
Bounding Box Width:	<input type="text"/>
Bounding Box Height:	<input type="text"/>
Point Symbol List:	<input type="button" value="Choose File"/> No file chosen
Point Symbol View:	<input type="button" value="Choose File"/> No file chosen



IHO PCB (Current Status)

- ✦ Essentially complete
- ✦ Not yet able to give it a thorough test due to all the other S-100 Registry Issues
- ✦ Will need to update the PCB connection to the new Portrayal Register model



Conclusions

- ✦ Making progress in stabilizing the infrastructure
- ✦ The need for an S-100 Registry Manager still needs to be addressed by the IHO
 - Need to know databases and basic web programming



Action requested of HSSC

- ✦ Endorse the work of the Republic of Korea regarding the updated S-100 GI Registry
- ✦ Note the efforts of Su Marks and NOAA for managing the current S-100 GI Registry
- ✦ Agree to hire or contract a full time S-100 Register manager with the appropriate skillset out lined in CL 77/2014

