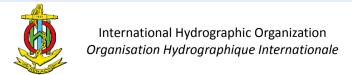
Hydrographic Services and Standards Committee

Introduction of S-100 Infrastructure

S-100WG / KHOA

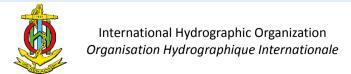
Presented by KHOA (Yong BAEK)



Introduction (1/2)

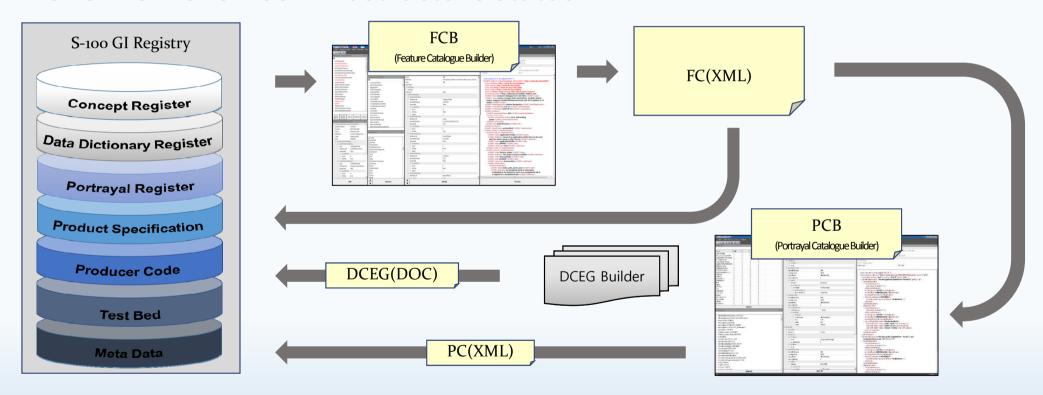
What is S-100 Infrastructure?

- A framework to support S-100 concept and S-10X product specifications
- Composed of :
 - S-100 GI Registry
 - Feature Catalogue Builder with FC
 - Portrayal Catalogue Builder with PC
 - DCEG Builder (refer to DCEG builder development)



Introduction (2/2)

Overview of S-100 Infrastructure status



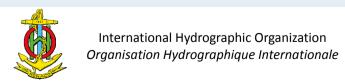


Status of S-100 GI Registry

- 1st phase : Initial interface and DB for FCD (~2015)
- 2nd phase : Update FCD, new Portrayal register (2015~2016)
- 3rd phase: Develop a New S-100 GI Registry (2017~2018)
- 3.1rd phase: Conduct closed-beta test (2019~Present) and ready to RELEASE

New Registry now supports :

- Concept register, Data Dictionary register and Portrayal register.
- S-10X PS development process(Test Bed, Product Specification
- Other registers(Producer Code, Metadata, Document)



Concept register

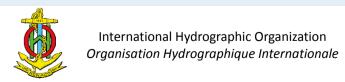
When S-10X developers find a new feature for product specification, they should propose it as concept and get review by register manager and whole domain control body to enhance data consistency/harmonization and avoid duplication

Data Dictionary register

Concepts can be transferred to features through the Data Dictionary register and uploaded to database and linked with S-100 Feature Catalogue Builder to generate S-10X feature catalogue XML files

Portrayal register

Only 4 types(Symbol, Line Style, Area Fill, Font) was supported over the past years, however NEW Portrayal register supports the whole 19 types which are defined in S-100 standard 3.0



Test Bed

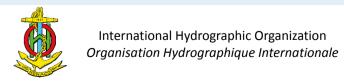
Outcomes(e.g. PS document, FC, PC, TDS) of all NEW S-10X development should be uploaded and managed by Test Bed system and they will be reviewed by various of stakeholders before official publish like 1.0.0 and 2.0.0

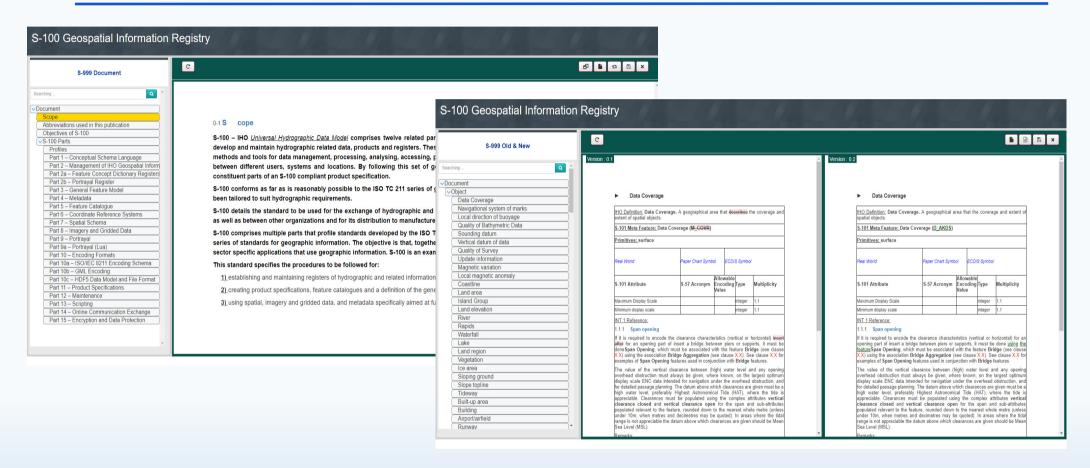
Product Specification register

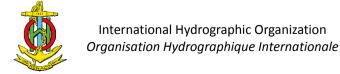
When the S-10X PS released officially, it will be moved to Product Specification register and shared to hydrographic users and S-100 Infrastructure

Metadata register

As following the S-100 standard 3.0 and 4.0, Metadata register was developed to support metadata such as exchange catalogue and process of Metadata register refers to Portrayal register

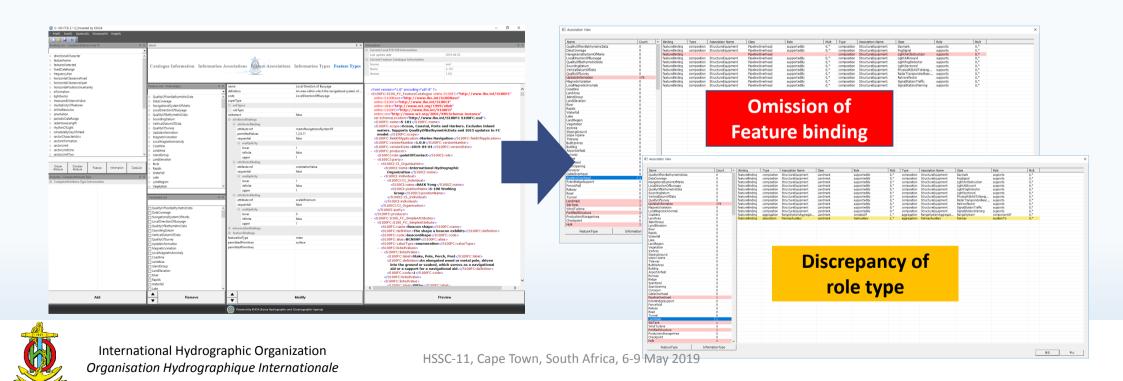






S-100 Feature Catalogue Builder

- S-100 FCB 2.1.0 Release
 - (Feature Association Validation) New tool for feature to check whether feature association (role type, binding information) between feature types facing each other



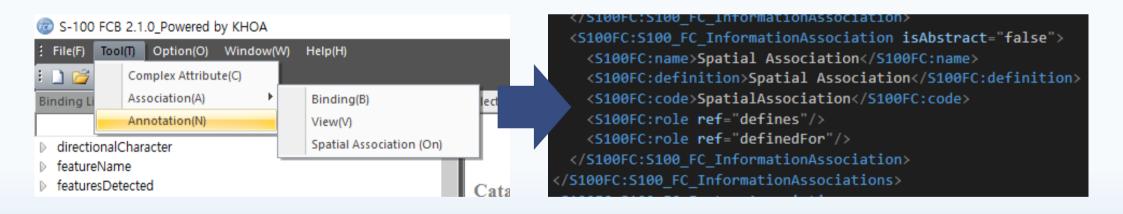
S-100 Feature Catalogue Builder

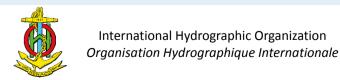
Annotation Function

Users can add any annotation to S-10X FC

Spatial Association for S-100 Converter

New function to add or delete Spatial Association to support S-100 Converter

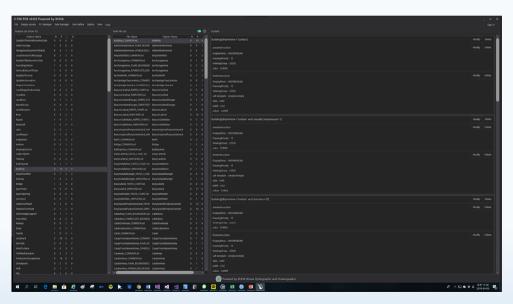


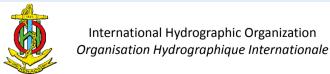


S-100 Portrayal Catalogue Builder

• S-100 PCB 1.0.0 Release

- A new concept of UI was applied to S-100 PCB 1.0.0
- Improved to manage rule files by main and sub
- Provide necessary information (eg, Context Parameter) required to produce PC XML.

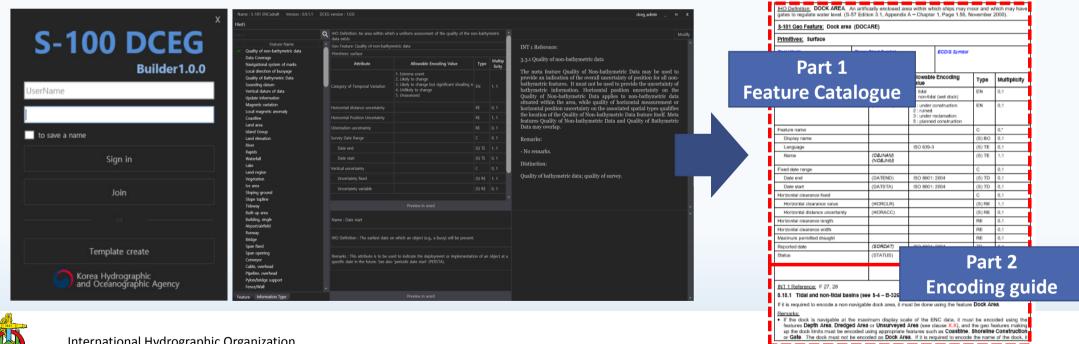




S-100 DCEG Builder

S-100 DCEG Builder 1.0.0 Release

• S-100 DCEG Builder supports to generate a S-10X Product Specification's annex such as DCEG(Data Classification and Encoding Guide) document in an easy way by referring S-10X FC XML to load feature information





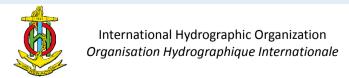
Future Plans

S-100 GI Registry

• Migration from the registry 2.1(FCD) to the New registry 3.1 version

Other Infrastructures

- S-100 FCB, PCB: Connection task with the new Registry 3.1 version
- DCEG Builder: Test and improve with PS developer co-work



Action requested of HSSC 11

- Note the report.
- Request to provide recommendations and feedbacks if any.

