

Paper for Consideration by TSM10

S-100 Tools Operation and Update

Submitted by:	Republic of Korea (KHOA/KRISO/Bluemap)
Executive Summary:	Operation case of S-100 tools used in the development of S-100 product specifications is reported and FCB/PCB updates are described.
Related Documents:	S-100 Ed. 5.2.0, S-97
Related Projects:	KHOA S-100 testbed project

Introduction / Background

S-100 Tools were developed to support the development of S-100 product specifications, but some tools had functional errors, required functions were not supported, some tools were out-dated, and tutorials and user manuals were not enough. That's why the S-100 tools were not used practically. Operation cases and future plans for S-100 Tools are shared and FCB/PCB updates were described based on S-100 version 5.2.

Analysis/Discussion

Operation case of S-100 Tools

IALA WWA (World Wide Academy) has a much interest in the development and application of product specifications in the domains of AtoN and VTS, and S-200 pilot training sessions were conducted to support IALA's S-200 series PS development. UKHO, PRIMAR, and KRISO participated as instructors in the course, and members of IALA's AtoN and VTS domain participated as trainees.

Practical exercise was conducted using the S-100 tools below in relation to application schema, PS development, and sample data. In particular, connected operation of S-100 Tools was implemented.

- S-100 FCB/PCB
- FC to GML Converter
- Symbol editor

S-100 standard toolkits from the IHO GI Registry was used in the pilot training, and Simple editor, OpenS-100, and Web-based testbed were used to produce and verify sample data. The figure below includes the connected operation concept of S-100 Tools as a practical exercise.

In the process of preparing for the connected operation of S-100 Tools, errors in each tool were fixed, and work was done to enable the production and editing of components of the S-XXX product specification.

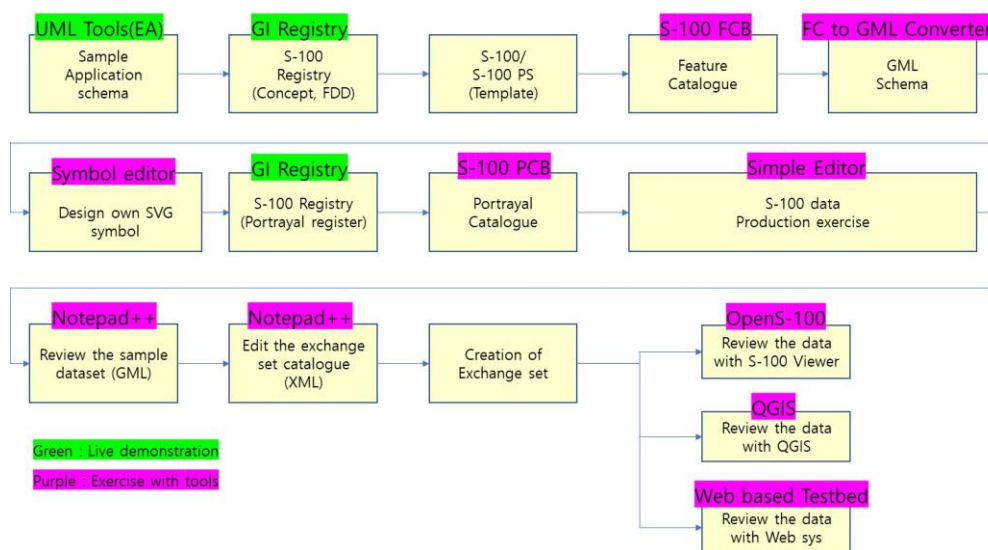


Fig.1. Steps of practical exercise

Using S-100 Tools, the components of below product specifications will be updated.

- Components: FC, PC, DCEG, GML Schema, SVG Symbol
- Target PS: S-130, S-122, S-125, S-201

KHOA plans to prepare the following items so that S-100 based PS developer can better utilize S-100 Tools.

- S-100 Tools user manual
- S-100 Tools tutorial
- S-100 Tools movie to support users

Updates of S-100 FCB/PCB

FCB Update details

- Support for editing Attribute Visibility added in S-100 5.2.0
- Improvement of editing function for Feature & Information Association

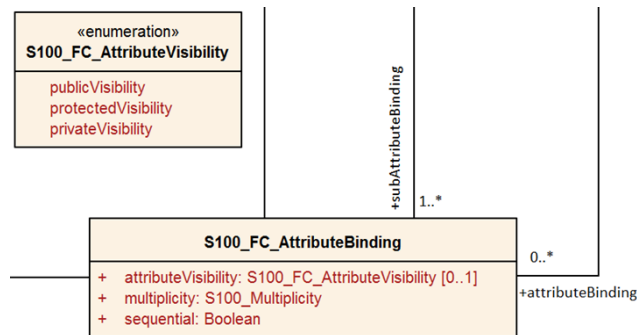


Fig. 2. Attribute Visibility in S-100 FC Model

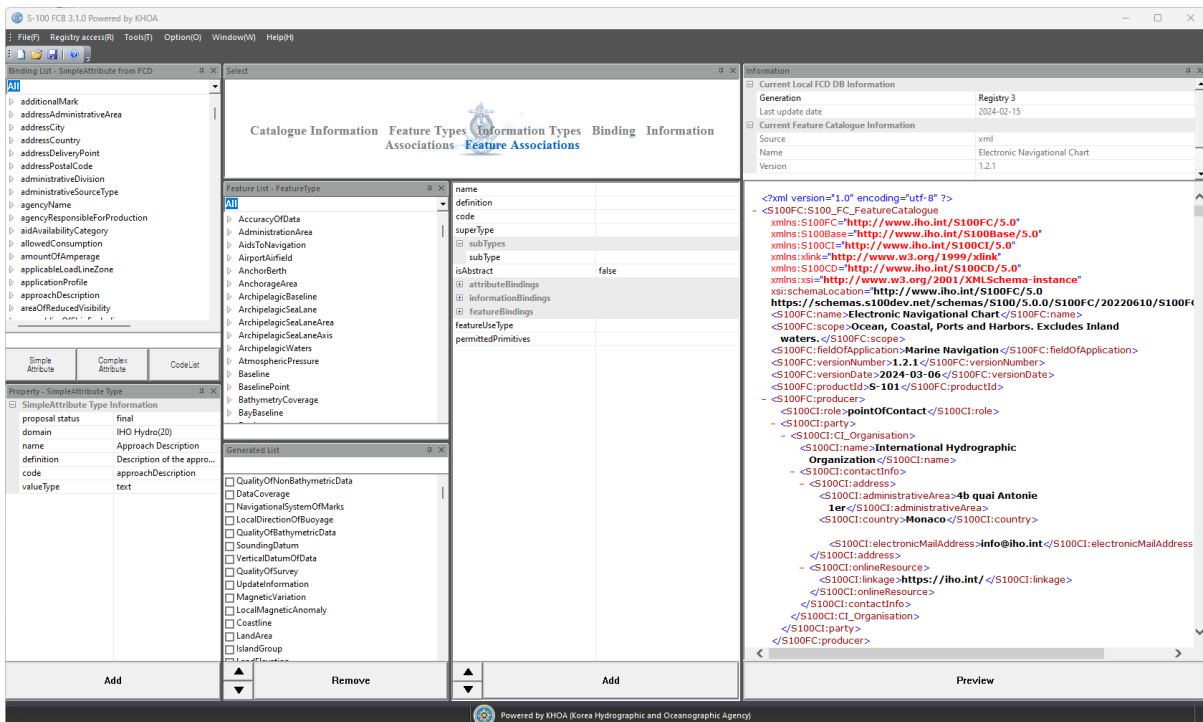


Fig. 3. Feature Catalogue Builder (FCB)

PCB Update details

- Improvement of user interface.
- Improvement of the function of export/import to/from zip/package(xml + files).
- Support for packaging PC items like external files or catalogue items.
- Preview of symbol, line style and pattern.

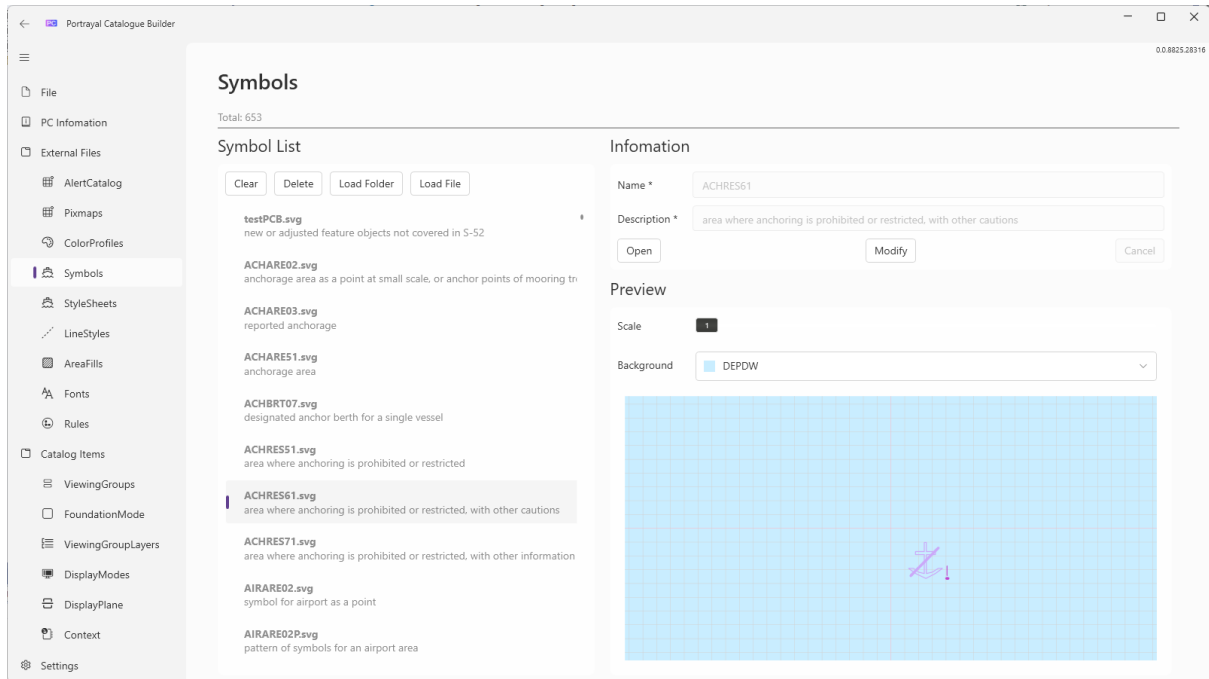


Fig. 4. Portrayal Catalogue Builder (PCB)

Recommendations

It's recommended to note connected operation case of S-100 Tools and plan to improve movie, tutorials, and user manuals so that S-100-based PS developer can better utilize S-100 Tools.

Action Required of S-100WG

The TSM10 is invited to:

- a. note the progress of S-100 Tools