

## Paper for Consideration by S-100PT4

## Updated Status of S-100 PCB

<b>Submitted by:</b>	Republic Of Korea (KHOA)
<b>Executive Summary:</b>	This paper describes updates of S-100 PCB
<b>Related Documents:</b>	S-100, S-99, S-100WG4-6.9
<b>Related Projects:</b>	KHOA S-100 Test Bed Project

**Introduction / Background**

KHOA reported the progress of developing prototype of S-100 Portrayal Catalogue Builder (PCB) to support IHO S-100 test bed programme at the S-100WG4 meeting in Denmark 2019. The meeting decided that the S-100 PCB developed by KHOA would be the IHO S-100 PCB that replaces the web PCB as a part of S-100 Infrastructure.

Since the last S-100WG meeting, the IHO has launched a contract project “Development of an S-101 Portrayal Catalogue” conducted by IIC /CARIS. As work items of the project, they reviewed the KHOA S-100 PCB when they drafted the S-101 portrayal catalogue and provided their findings and comments.

This paper describes key elements of the S-100 PCB version 1.0.0 and reports the progress on improving the PCB

**Analysis**Flowchart of S-100 PCB

KHOA developed the S-100 PCB to create S-10X portrayal catalogues required for S-100 based Product Specifications. . Figure 1 shows the process of S-100 PC creation. The improvement and major functions of the PCB were introduced at the S-100WG4 meeting (refer to S-100WG4-6.3).

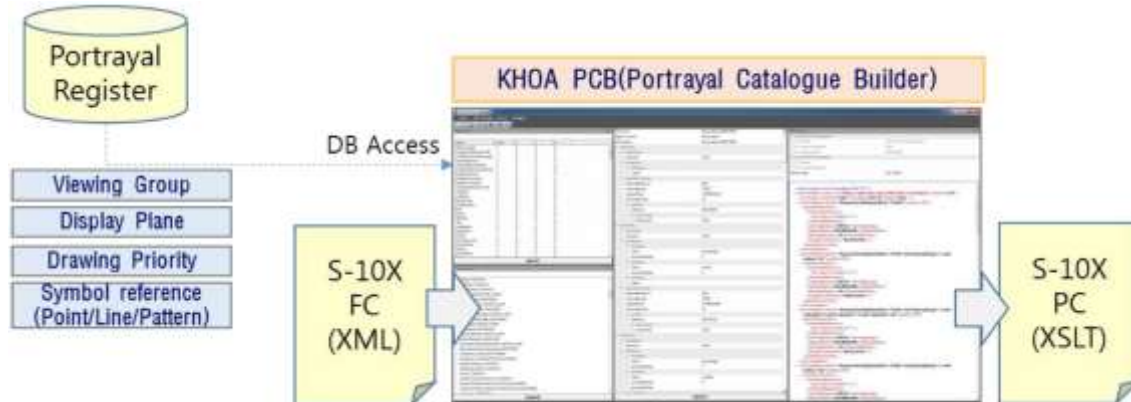


Figure 1 Process of S-100 PC Creation

**Discussion**Status and Plans of S-100 PCB version 1.0.0

KHOA has been improving the interface of the PCB and developing additional functions required to create S-10X portrayal catalogues with the comments and proposals by IIC/CARIS. The major features of improvement are as the following:

- 1) Add a sand box function that new items like Symbol, Display priority and Display plane, etc. could be proposed (Local XML DB will be located in the S-100 PCB to support the sand box function)
- 2) Preview function of Symbol
- 3) Interface to define Styles and Templates
- 4) Interface to define Context Parameters, Mariner Settings, Conditional Procedures and Functions
- 5) Function to convert XSLT to Lua (Planned)

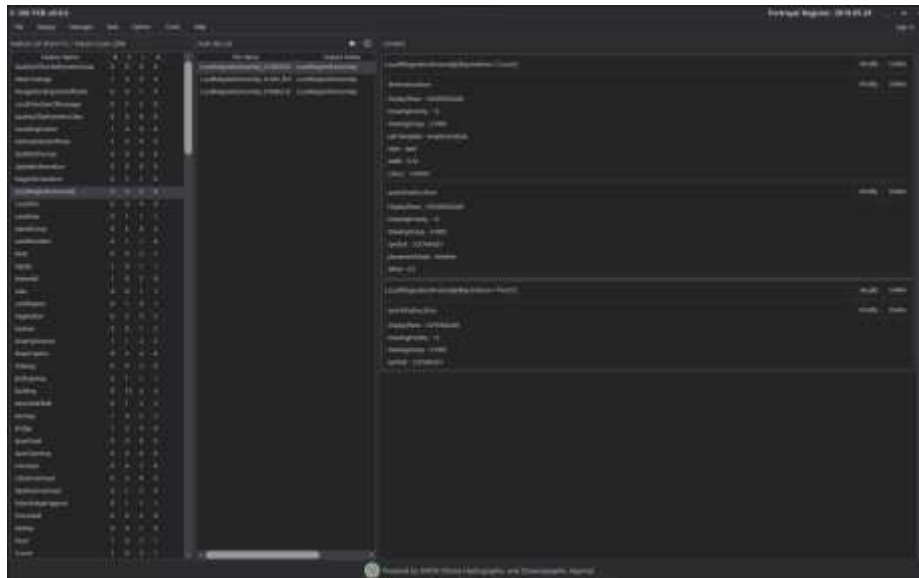


Figure 2 Improved S-100 PCB

Figure 2 shows the improved S-100 PCB for UI and function. New version of S-100 PCB supports;

- 1) Preview function for Symbol, Linestyle, Areafill types
- 2) New interface to create and manage main rule files
- 3) New interface to define rules
- 4) Users shall add any resources (Pixmap, Symbol, LineStyle, AreaFill, Font, DisplayMode, ViewingGroup, ViewingGroupLayer, DisplayPlane, ContextParameter)

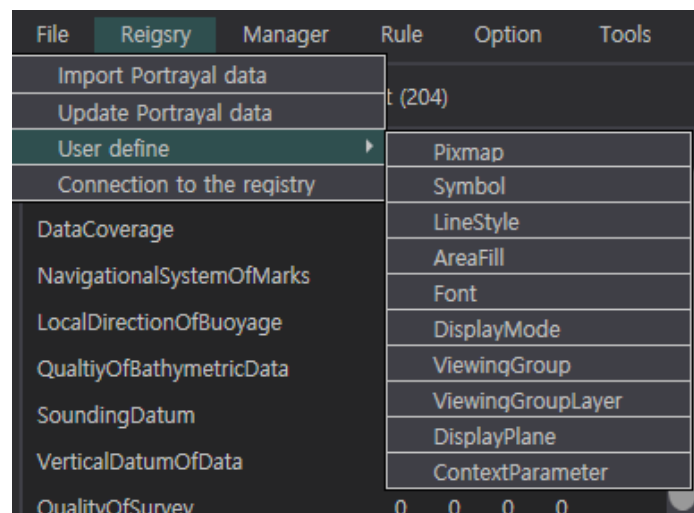


Figure 3 User resource management

### **Conclusions**

KHOA improved S-100 PCB following IIC, CARIS and S-100WG meeting. After the S-101PT4 meeting, followed by conjunction with S-100WG, the draft version of S-100 PCB will be open. In the meantime, other remaining items such as converting XSLT to Lua etc. will be reported at the next S-100WG meeting.

### **Action Required of S-101PT**

The S-101PT4 is invited to:

- a. Note this paper
- b.