

## Paper for Consideration by S-100 TSM

## [Portrayal Catalogue Process]

<b>Submitted by:</b>	Rep. of Korea (KHOA)
<b>Executive Summary:</b>	This paper describes the process of creating a portrayal catalogue using S-100 infra structure and development tools in the process of creating S-100 based product specification and suggest a discussion of what needs to be decided for the S-100 based PS developer.
<b>Related Documents:</b>	S-100 4.0, S-101 1.0, Guidance for PS Developers Part A, Part B
<b>Related Projects:</b>	IHO S-100 testbed project, KHOA S-100 testbed project

## Introduction / Background

IHO has updated the S-100 and established the S-100 infra structure to support the development of S-100 based product specification

The portrayal catalogue is an important part of S-100 based product specification and can be created using the S-100 infra structure and development tools. This paper describes the process of creating the portrayal catalogue and suggests discussion of relevant issues.

## Analysis/Discussion

S-100 aims to provide standard framework for developing product specification, which contains a feature catalogue and portrayal catalogue optionally. Those catalogue can be created using the S-100 infra structure and development tools.

The S-100 infra structure and development tools consist of S-100 registry, FCB and PCB. SVG editor can be used to draw the symbol shape and save it in a digital file. The process of creating portrayal catalogue using S-100 infra structure and development tools is as follows;

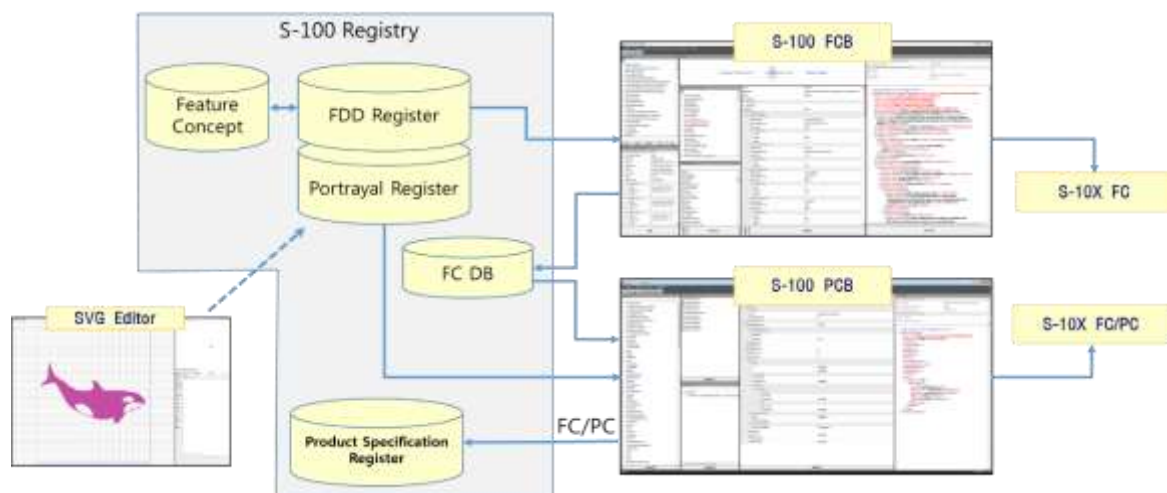


Fig 1. The process of creating portrayal catalogue

## (1) Creating Feature Catalogue

- Create FC using the S-100 FCB
- Save the FC into the FC DB which is located in the S-100 Registry.

- (2) Propose new portrayal items to the Portrayal Register
  - If there are new portrayal items, propose those to the portrayal register
  - Portrayal items proposed include Symbol, Line Style, Area fill, Font (An user interface is being developed for the purpose of managing Display priority, Display plane, Viewing group and Colour in the beta registry)
  - S-100 PCB loads the proposed items in the Portrayal register and include those in the portrayal catalogue.
- (3) Creating the portrayal catalogue
  - Execute the S-100 PCB and select the target FC from the FC DB
  - Define portrayal rules by feature types included in FC and create a portrayal catalogue
- (4) Save the portrayal catalogue finished to the Product specification register
  - The result of creating the portrayal catalogue is saved with FC
  - The result is saved in the Product specification register

The portrayal catalogue can be created using the S-100 infra structure and development tools. The research team found that there were things to be decided when creating the portrayal catalogue.

- (1) Management plan of portrayal items
  - When creating the portrayal catalogue using the S-100 PCB, all portrayal items required to configure the catalogue must be registered in the portrayal register
  - Discuss a need to create a draft version of portrayal catalogue by entering temporary information in the S-100 PCB without registering it in the portrayal register
- (2) Distribution of FC/PC as package
  - When a portrayal catalogue is created by S-100 PCB, the creation result contains the feature catalogue which was used
  - The same version of FC and PC have to be distributed
  - FC is a single XML file, but the PC consists of a folder structure
  - Distributing FC and PC together requires packaging
  - The exchange set catalogue can be used for the package purpose, but existing data model of exchange set catalogue have to include dataset as a mandatory option
  - Need to discuss whether the exchange set catalogue can be used to distribute catalogues without dataset. Once the need is recognized, the data model of exchange set catalogue needs to be revised.

### **Conclusions**

KHOA reviewed the process of creating a portrayal catalogue of S-100 based product specification using S-100 infra structure and development tools, and identified what needs to be discussed.

### **Recommendations**

KHOA suggests to discuss the two issues for S-100 based product specification developer to create the portrayal catalogue consistently using S-100 infra structure and development tools.

### **Action Required of TSM**

The TSM6 is invited to:

- a. note this document
- b. discuss the issues raised in this document