



Test Strategy Meeting 10

Basic Portrayal Catalogue

Agenda Item 8.6

12 - 15 March 2024 / Monaco, IHO



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INTRODUCTION/BACKGROUND

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- Need of Basic Portrayal catalogue
 - Depending on the readiness level of S-97, a portrayal catalogue is optional
 - Portrayal catalogue has not been developed in most S-100 product specifications
 - Difficult to test S-1XX dataset due to the absence of a portrayal catalogue.
- S-100WG8 decision
 - Need of a BPC (Basic Portrayal Catalogue) was discussed
 - Developing the BPC for the Lua/XSLT and way to utilize the BPC is proposed



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STRUCTURE OF BPC(BASIC PORTRAYAL CATALOGUE)

- BPC consists of color, symbols, fonts and rules with portrayal catalogue as shown below

Root ---- (contains the Catalogue named "portrayal_catalogue.xml", and optionally an Alert Catalogue file)

```
|
|-- Pixmaps (contains XML files describing pixmaps)
|
|-- ColorProfiles (contains XML files with colour profiles)
|
|-- Symbols (contains SVG files with symbols and CSS2 style sheets)
|
|-- LineStyles (contains XML files with line styles)
|
|-- AreaFills (contains XML files area fills)
|
|-- Fonts (contains TrueType font files)
|
|-- Rules (contains files with rules which map features to drawing instructions)
```



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STRUCTURE OF BPC(BASIC PORTRAYAL CATALOGUE)

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- Two types of BPC (XSLT rules and Lua rules)
 - XSLT types BPC
 - Support vector products like S-12X
 - Lua types BPC
 - Support S-101 only
- BPC for coverage products (S-102/S-104/S-111)
 - Need more research and investigation



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TESTING BPC IN S-100 VIEWER

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- S-122 MPA
 - S-122 FC/Sample data with BPC

The screenshot displays the S-100 Viewer interface. The main map area shows the Korean Peninsula with a red dashed box highlighting a specific region. Labels on the map include: Jodo Neighboring Water, Ulleungdo Neighboring Water, Ongjin Jangbongdo National Park, Daejakdo Neighboring Water, Huijeong Maeryangri National Park, Sindu Neighboring Water, Taeanhaean National Park, Boryeong Neighboring Water, Pohang Homigot Neighboring Water, Byeosanbando National Park, Mian, Dadohaejeom National Park, Dadohaejeom National Park, Dadohaejeom National Park, Dadohaejeom National Park, Dadohaejeom National Park, Dadohaejeom National Park, Gageodo Neighboring Water, Chusido Neighboring Water, Tokksium Neighboring Water, and Munsum Neighboring Water.

The 'Dataset information' panel on the right shows the following details:

No.	Name
1.	122K0000FULL_SET.gml

The 'Data Set Identification' panel shows the following fields:

Field	Value
Encoding specification	-
Encoding specification...	-
Product identifier	-
Product edition	-
Application profile	-
Dataset file identifier	-
Dataset title	-
Dataset reference date	-
Dataset language	-
Dataset abstract	-
Dataset edition	-
Dataset topic category	-

The 'Feature information' panel is currently empty.

The 'Current Selection' table at the bottom is empty.

ID	Name	Geometry	Lat	Lon	Relation Ont	Type
----	------	----------	-----	-----	--------------	------

The status bar at the bottom left shows the coordinates: 1:4.006,932, 42:17.039(N), 124:40.490(E). The status bar at the bottom right shows: CAP_NUM SCR1.



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TESTING BPC IN S-100 VIEWER

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- S-101 ENC
- S-101 FC/Sample data with BPC

Dataset information

No.	Name
1	2205001ENC100

Feature information

name	code	value	unit	description
nameOfSurface	1	Mud		
nameOfEffect	2	Always Under Water		
scaleMinimum	785			

ID	Name	Geometry	Lat	Lon	Feature-Cat	Type
203	Soundng	Multi-Point	35.021039	128.046208	0	Feature
203	Soundng	Multi-Point	35.021032	128.036209	0	Feature
204	Soundng	Multi-Point	35.020239	128.046270	0	Feature
188	Soundng	Multi-Point	35.021713	128.036204	0	Feature
188	Seabed Area	Point	35.020973	128.042772	0	Feature
186	Depth Contour	Curve	35.020000	128.024796	0	Feature
227	Depth Area	Surface	35.021211	128.030000	0	Feature
64	Magnetic Variation	Surface	35.020000	128.030000	1	Feature
62	Information Area	Surface	35.020000	128.030000	1	Feature
89	Inland Traffic Service Area	Surface	35.020000	128.030000	0	Feature
9	Quality of Bathymetric Data	Surface	35.020000	128.030000	0	Feature

Dataset information

No.	Name
1	2205001ENC100

Feature information

name	code	value	unit	description
nameOfSurface	1	Mud		
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ID	Name	Geometry	Lat	Lon	Feature-Cat	Type
186	Seabed Area	Point	35.020973	128.042772	0	Feature
227	Depth Area	Surface	35.021211	128.030000	0	Feature
64	Magnetic Variation	Surface	35.020000	128.030000	1	Feature
62	Information Area	Surface	35.020000	128.030000	1	Feature
89	Inland Traffic Service Area	Surface	35.020000	128.030000	0	Feature
9	Quality of Bathymetric Data	Surface	35.020000	128.030000	0	Feature
7	Scale Change	Surface	35.020000	128.030000	0	Feature
6	Quality of Soundng	Surface	35.020000	128.030000	0	Feature
5	Navigational System of Marks	Surface	35.020000	128.030000	0	Feature



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TESTING BPC IN S-100 VIEWER

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The screenshot shows the OpenS100 software interface. A map of the world is displayed in the background. Overlaid on the map is a 'Dataset Manager' dialog box. The dialog box has a title bar 'Dataset Manager' and a path 'FC / PC / Datasets / SupportFiles'. It contains two tables: 'Feature Catalogues' and 'Portrayal Catalogues'. Both tables have columns for 'Name', 'Product', and 'Version'. The 'Feature Catalogues' table is currently empty. The 'Portrayal Catalogues' table is also empty. At the bottom right of the dialog box, there is an 'OK' button with a mouse cursor pointing to it. To the right of the map, there are two panels: 'Dataset information' and 'Feature Information'. The 'Dataset information' panel has a table with columns 'No.' and 'Name'. Below it is a 'Data Set Identification' section with various fields like 'Encoding specification', 'Product identifier', etc. The 'Feature Information' panel is currently empty. At the bottom of the screen, there is a taskbar with various application icons and a system tray showing the time '오후 1:49' and date '2024-03-13'.

Install features catalogues



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HOW TO USE BPC

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- IHO GI Registry
 - BPC can be registered in the IHO GI Registry for use by PS developer, product producers and users
- S-97
 - In order to support minimum portrayal of test data when developing S-100-based product specifications, text must be added to the relevant sections of the S-97

- (A-6.2.20 Portrayal) In order to check the minimum portrayal in S-100 applications, the BPC provided by IHO can be included in the product specification package or the download location of IHO GI Registry can be indicated.
- (B-16 Portrayal Catalogue) When developing the S-100 product specification, the portrayal catalogue is optional. If necessary, the BPC provided by IHO can be included or the download location of IHO GI Registry can be indicated.



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ACTION REQUIRED OF TSM

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- Recommended to approve the BPC (XSLT, Lua) developed to support the minimum portrayal of the S-100 product specification for which a portrayal catalogue has not been developed, and the IHO Secretariat is invited to post the PBC in the IHO GI Registry
- Approve the basic portrayal catalogue and update the S-97