Summary of Change Proposals

Presented by SPAWAR

for S100WG4

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4.6 - Catalogue CSS Files

- Modify the schema for *portrayal_catalogue.xml* so that stylesheet files can be enumerated.
  - Currently stylesheet files (CSS) used to modify the SVG symbols are not enumerated within *portrayal_catalogue.xml*
  - All other contents of the portrayal catalogue are enumerated within *portrayal_catalogue.xml* (Symbols, Rules, Linestyles, etc.)
- If approved, will be supported in S100Viewer v1.7

4.6 - Catalogue CSS Files

Before

After

```xml
<?xml version="1.0" encoding="ISO-8859-1"?>

<?pcbinfo name="S-101" fieldOfApplication="Marine Navigation" scope="Ocean, Coa
Harbors. Excludes Inland waters. Supports QualityOfBathymetricData and 2015 upo
 versionDate="2018-11-05T00:00:00+0000" user="IHO Testbed" organization="Intern
Hydrographic Organization"?>
<portrayalCatalog xmlns:xsl="http://www.w3.org/2001/XMLSchema" productId="S-101
    <pixmaps/>
    <colorProfiles>
    <symbols>
    <lineStyles>
    <areaFills>
    <fonts>
    <viewingGroups>
    <foundationMode>
    <viewingGroupLayers>
    <displayModes>
    <displayPlane>
    <context>
    <rules>
</portrayalCatalog>
```

```xml
<?xml version="1.0" encoding="ISO-8859-1"?>

<?pcbinfo name="S-101" fieldOfApplication="Marine Navigation" scope="Ocean, Coa
Harbors. Excludes Inland waters. Supports QualityOfBathymetricData and 2015 upo
 versionDate="2018-11-05T00:00:00+0000" user="IHO Testbed" organization="Intern
Hydrographic Organization"?>
<portrayalCatalog xmlns:xsl="http://www.w3.org/2001/XMLSchema" productId="S-101
    <pixmaps/>
    <colorProfiles>
    <symbols>
    <styleSheets>
        <styleSheet id="dayStyle">
            <fileName>daySvgStyle.css</fileName>
            <fileType>StyleSheet</fileType>
            <fileFormat>XML</fileFormat>
        </styleSheet>
        <styleSheet id="duskStyle">
            <fileName>duskSvgStyle.css</fileName>
            <fileType>StyleSheet</fileType>
            <fileFormat>XML</fileFormat>
        </styleSheet>
    </styleSheets>
    <lineStyles>
    <areaFills>
    <fonts>
    <viewingGroups>
    <foundationMode>
    <viewingGroupLayers>
    <displayModes>
    <displayPlane>
    <context>
    <rules>
</portrayalCatalog>
```

4.7 - Palette Support for Symbols

- A stylesheet (CSS file) is used to provide colour lookups for SVG symbols

- Desired functionality
  - When the user changes the colour palette, re-render symbols using the appropriate stylesheet

- Issue
  - A unique stylesheet is needed for each colour palette
  - The CSS files can only reference a single stylesheet (svgStyle.css)
  - The schemas provide no relationship between a colour palette and a stylesheet

4.7 - Palette Support for Symbols

- Prior Work
  - S-100WG2-8.9, items 6-7
  - Several mechanisms were proposed at and following TSM6
- Proposal
  - Provide a "css" attribute to each colour palette, identifying the related stylesheet
- Implementation details
  - Simple update to portrayal_catalogue.xml
  - HTML viewers (e.g. portrayal registry): use JavaScript to replace *xml-stylesheet href* with appropriate filename
  - ECDIS: replace *href*, swap css file, or use custom code
- Supported in S100Viewer v1.6

4.7 – Palette Support for Symbols

Before

```
<?xml version="1.0" encoding="ISO-8859-1"?>
- <colorProfile xsi:noNamespaceSchemaLocation="s100ColorProfile.xsd" xmlns
    + <colors>
    + <palette name="Day">
    + <palette name="Dusk">
    + <palette name="Night">
  </colorProfile>
```
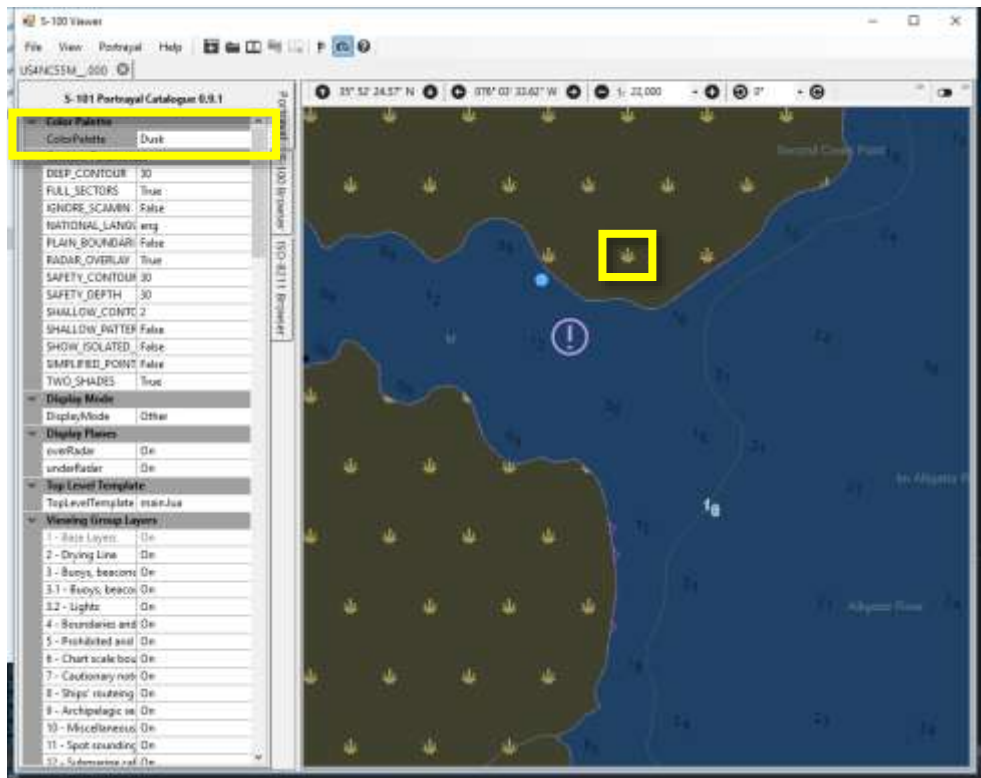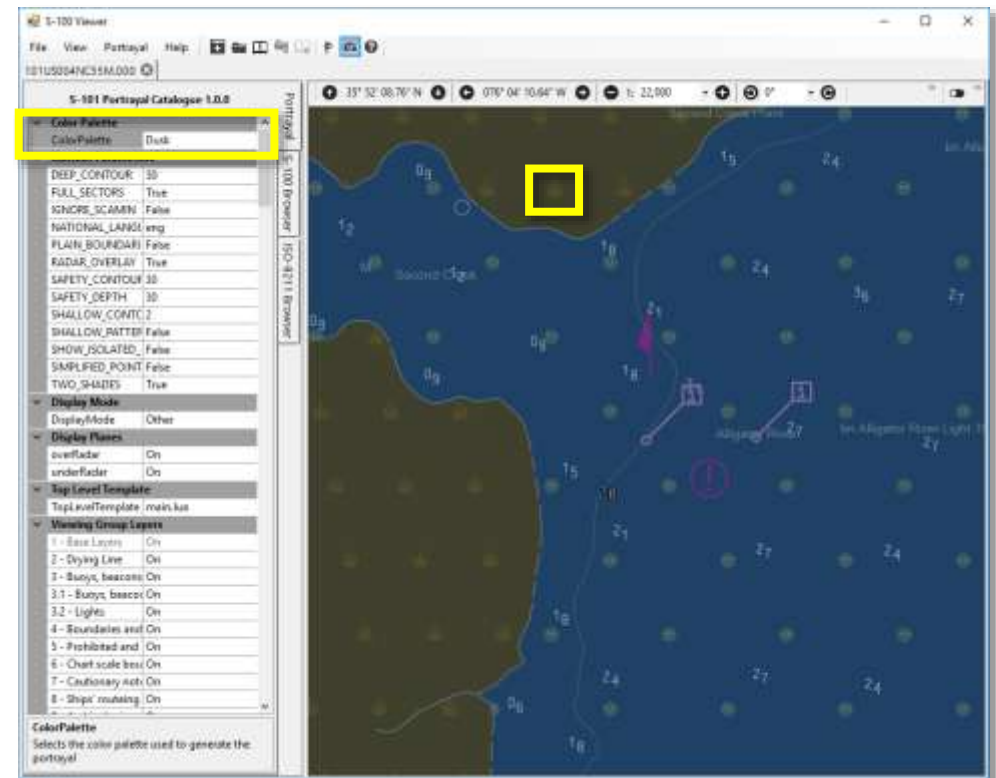
After

```
<?xml version="1.0" encoding="ISO-8859-1"?>
- <colorProfile xsi:noNamespaceSchemaLocation="s100ColorProfile.xsd" xmlns
    + <colors>
    + <palette name="Day" css="daySvgStyle.css">
    + <palette name="Dusk" css="duskSvgStyle.css">
    + <palette name="Night" css="nightSvgStyle.css">
  </colorProfile>
```

4.7 - Palette Support for Symbols

S100Viewer 1.5
(symbols always use Day palette)

S100Viewer 1.6
(symbols use correct palette)

4.8 - Palette Item Transparency

- Desired functionality
  - Allow drawing instructions to vary the transparency value of a colour token based on the selected colour palette
  - Supports S-102 and S-111
  - S-102 DEPDW may be opaque in the day palette and 60% transparent in the dusk palette
- Currently drawing instructions provide a single transparency value which applies regardless of the selected colour palette

4.8 - Palette Item Transparency

- Proposed
  - Specify transparency as an optional attribute of each *PaletteItem* (colour token)
  - Default to opaque
- If approved, will be supported in S100Viewer v1.7

4.8 - Palette Item Transparency

Before

```
<palette name="Dusk" css="Dusk.css">
    <item token="CHBLK">
    [...]
    </item>
    [...]
</palette>
```

After

```
<palette name="Dusk" css="Dusk.css">
    <item
     token="CHBLK" transparency="0.6">
        [...]
    </item>
    [...]
</palette>
```
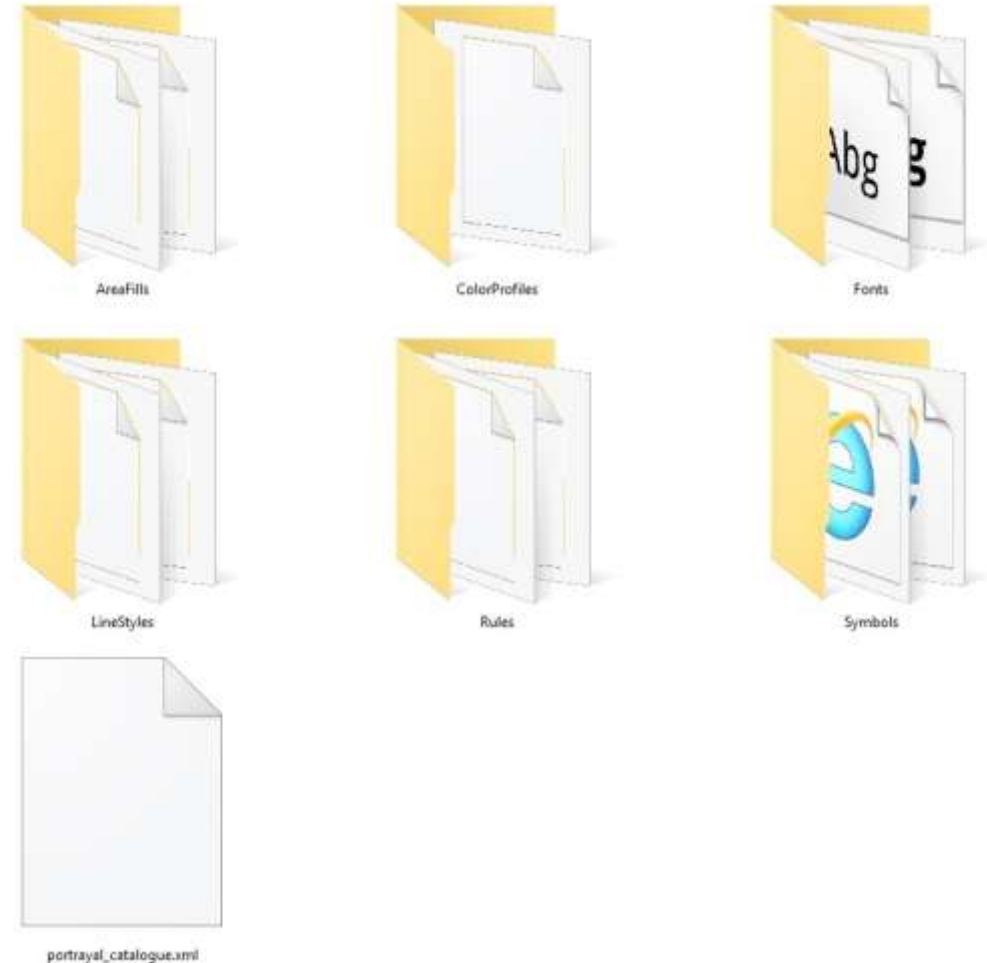
4.9 - Style Sheet Folder

- Currently stylesheets are delivered in the portrayal catalogue "ColorProfiles" folder

- Stylesheets must be applied to the SVG files in the "Symbols" folder

- Proposed
  - Deliver the stylesheets in the "Symbols" folder
  - Update S-100 *9-13.2* portrayal library structure

- Required by S100Viewer v1.6

AreaFills   ColorProfiles   Fonts

LineStyles   Rules   Symbols

portrayal_catalogue.xml

4.10 - ISO-8211 Data Structure Codes

- C2IT and C3IT data descriptive fields (10a-5.4.2 / 10a-5.4.3) are incorrect
  - Presented at TSM6
  - Datasets created using the values shown in Part 10a will not load

- Proposed
  - Change the indicated values to "1"

10a-5.4.2 2-D Integer Coordinate Tuple field structure

Field Tag: C2IT	Field Name 2-D Integer Coordinate Tuple

Data Descriptive Field

2100;&□□□2-D□Integer□Coordinate□Tuple▲YCOO!XCOO▲(2b24)▼

10a-5.4.3 3-D Integer Coordinate Tuple field structure

Field Tag: C3IT	Field Name: 3-DInteger Coordinate Tuple

Data Descriptive Field

3100;&□□□3-D□Integer□Coordinate□Tuple▲VCID!YCOO!XCOO!ZCOO▲(b11,3b24)▼