

Title: Schema use in Presentation Library XSD files

S-100 Maintenance - Change Proposal Form

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Change Proposal Type (*Select only one option*)

1. Clarification	2. Correction	3. Extension
	X	

Location (*Identify all change proposal locations*)

S-100 Version No.	Part No.	Section No.	Proposal Summary
5.0	9		Ensure all portrayal schemas define a namespace

Change Proposal

Ensure all portrayal schemas define a namespace.

Change Proposal Justification

It turns out that some schemas used for portrayal do not define a namespace. This makes it difficult for the parsing application to choose the correct schema file for the schema validation. This will become more difficult when different versions of the schema files exist due to the release of new standard editions. The application must hard code this and uses heuristics for finding the right schema file. This is a source of errors and can easily be avoided by assigning a namespace to each schema file. Note that the actual namespaces need to be changed from .../5.0 to .../5.1 in order to match the upcoming version of S-100. Also the version attributes must be amended accordingly.

What parts of the S-100 Infrastructure will this proposal affect?

- S-100 Feature Concept Dictionary Interface or Database
- S-100 Portrayal Register
- S-100 Feature Catalogue Builder
- S-100 Portrayal Catalogue Builder
- S-100 UML Models
- S-100 GitHub Schemas

Please send completed forms and supporting documentation to the secretary S-100WG.

S100AlertCatalog.xsd

```
<xs:schema
  xmlns="http://www.iho.int/S100AlertCatalog/5.0"
  xmlns:pc="http://www.iho.int/S100PortrayalCatalog/5.0"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:s100CSL="http://www.iho.int/s100/csl/5.0"
  xmlns:s100Symbol="http://www.iho.int/S100SymbolDefinition/5.0"
  targetNamespace="http://www.iho.int/S100AlertCatalog/5.0"
  version="5.0.0-20220705">
```

The <include> element for the portrayal schema must be replaced by an <import> element:

```
<xs:import
  namespace="http://www.iho.int/S100PortrayalCatalog/5.0"
  schemaLocation="S100PortrayalCatalog.xsd"/>
```

The last amendment is to qualify the types from the portrayal schema.

```
<xs:extension base="pc:CatalogItem">
```

There are three occurrences in the schema file.

S100AreaFill.xsd

```
<xs:schema
  xmlns="http://www.iho.int/S100AreaFill/5.0"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:s100Symbol="http://www.iho.int/S100SymbolDefinition/5.0"
  targetNamespace="http://www.iho.int/S100AreaFill/5.0"
  version="5.0.0-20220705">
```

S100ColorProfile.xsd

```
<xs:schema
  xmlns="http://www.iho.int/S100ColorProfile/5.0"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  targetNamespace="http://www.iho.int/S100ColorProfile/5.0"
  version="5.0.0-20220705">
```

S100LineStyle.xsd

```
<xs:schema
  xmlns="http://www.iho.int/S100LineStyle/5.0"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:s100Symbol="http://www.iho.int/S100SymbolDefinition/5.0"
  targetNamespace="http://www.iho.int/S100LineStyle/5.0"
  version="5.0.0-20220705">
```

S100Pixmap.xsd

```
<xs:schema xmlns="http://www.iho.int/S100Pixmap/5.0"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:s100Symbol="http://www.iho.int/S100SymbolDefinition/5.0"
  targetNamespace="http://www.iho.int/S100Pixmap/5.0"
  version="5.0.0-20220705">
```

S100PortrayalCatalog.xsd

```
xs:schema xmlns="http://www.iho.int/S100PortrayalCatalog/5.0"  
xmlns:xs="http://www.w3.org/2001/XMLSchema"  
xmlns:s100Symbol="http://www.iho.int/S100SymbolDefinition/5.0"  
xmlns:s100CSL="http://www.iho.int/s100/csl/5.0"  
targetNamespace="http://www.iho.int/S100PortrayalCatalog/5.0"  
version="5.0.0-20220705">
```