Schema documentation for S100_IC_Context.xsd

july 21, 2016

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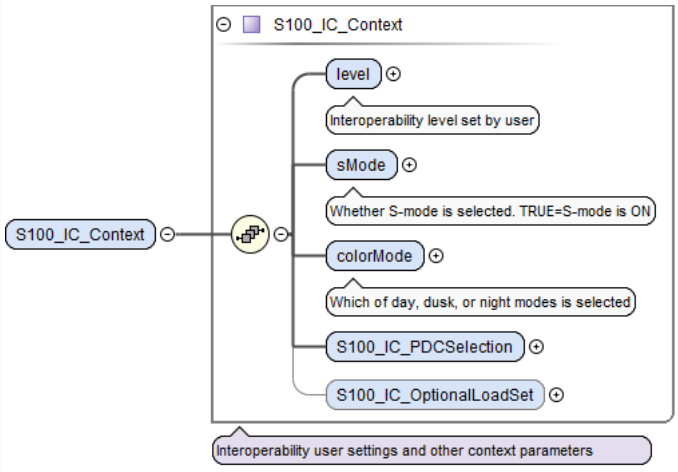
Schema(s)

Main schema S100_IC_Context.xsd

Annotations	Initial demo. As the interoperability specification matures, metadata and source identification elements will be added in order to distinguish settings files created by different users.	
Properties	attribute form default:	unqualified
	element form default:	unqualified
	version:	0.1

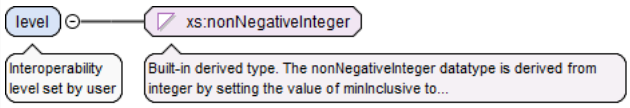
Element(s)

Element S100_IC_Context

Diagram	
Type	S100_IC_Context

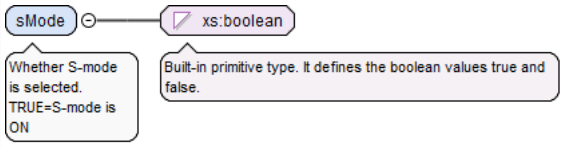
Properties	content: complex
Children	S100_IC_OptionalLoadSet, S100_IC_PDCSelection, colorMode, level, sMode
Source	`<xs:element name="S100_IC_Context" type="S100_IC_Context"/>`

Element S100_IC_Context / level

Annotations	Interoperability level set by user
Diagram	
Type	xs:nonNegativeInteger
Properties	content: simple minOccurs: 1 maxOccurs: 1

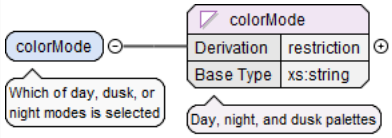
Source	`<xs:element name="level" type="xs:nonNegativeInteger" minOccurs="1" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation>Interoperability level set by user</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element S100_IC_Context / sMode

Annotations	Whether S-mode is selected. TRUE=S-mode is ON
Diagram	
Type	xs:boolean
Properties	content: simple minOccurs: 1 maxOccurs: 1

Source	`<xs:element name="sMode" type="xs:boolean" minOccurs="1" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation>Whether S-mode is selected. TRUE=S-mode is ON</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

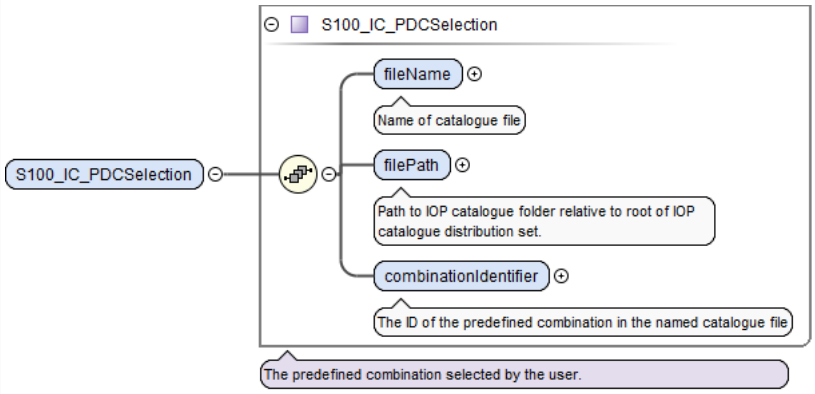
Element S100_IC_Context / colorMode

Annotations	Which of day, dusk, or night modes is selected
Diagram	
Type	colorMode
Properties	content: simple minOccurs: 1 maxOccurs: 1
Facets	enumeration day — Day color palette or mode enumeration dusk — Dusk color palette or mode enumeration night — Night color palette or mode

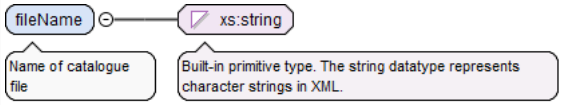
Source	`<xs:element name="colorMode" type="colorMode" minOccurs="1" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation>Which of day, dusk, or night modes is selected</xs:documentation>`

```
  </xs:annotation>
</xs:element>
```

Element S100_IC_Context / S100_IC_PDCSelection

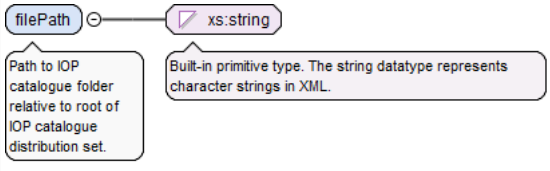
Diagram	
Type	S100_IC_PDCSelection
Properties	content: complex minOccurs: 1 maxOccurs: 1
Children	combinationIdentifier, fileName, filePath
Source	`<xs:element name="S100_IC_PDCSelection" type="S100_IC_PDCSelection" minOccurs="1" maxOccurs="1"/>`

Element S100_IC_PDCSelection / fileName

Annotations	Name of catalogue file
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 1 maxOccurs: 1

Source	`<xs:element name="fileName" type="xs:string" minOccurs="1" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation>Name of catalogue file</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

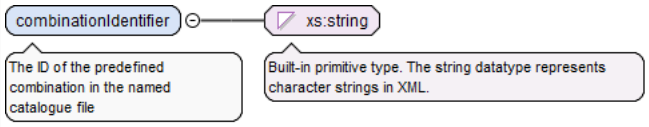
Element S100_IC_PDCSelection / filePath

Annotations	Path to IOP catalogue folder relative to root of IOP catalogue distribution set.
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 1 maxOccurs: 1

Source	`<xs:element name="filePath" type="xs:string" minOccurs="1" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation>Path to IOP catalogue folder relative to root of IOP catalogue distribution set.</xs:documentation>`

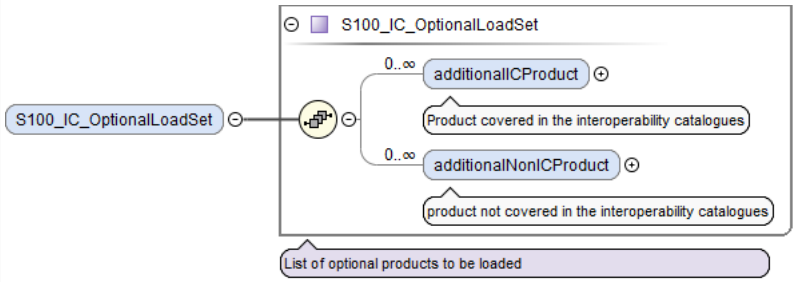
```
  </xs:annotation>
</xs:element>
```

Element S100_IC_PDCSelection / combinationIdentifier

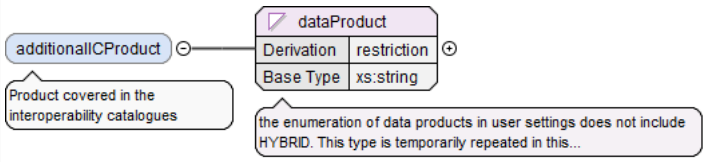
Annotations	The ID of the predefined combination in the named catalogue file
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 1 maxOccurs: 1

Source	`<xs:element name="combinationIdentifier" type="xs:string" minOccurs="1" maxOccurs="1">`
	`  <xs:annotation>`
	`  <xs:documentation>The ID of the predefined combination in the named catalogue file</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element S100_IC_Context / S100_IC_OptionalLoadSet

Diagram	
Type	S100_IC_OptionalLoadSet
Properties	content: complex minOccurs: 0 maxOccurs: 1
Children	additionalICProduct, additionalNonICProduct
Source	`<xs:element name="S100_IC_OptionalLoadSet" type="S100_IC_OptionalLoadSet" minOccurs="0" maxOccurs="1"/>`

Element S100_IC_OptionalLoadSet / additionalICProduct

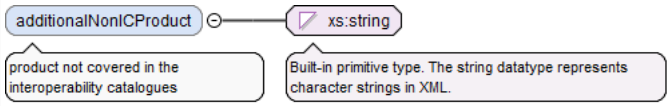
Annotations	Product covered in the interoperability catalogues
Diagram	
Type	dataProduct
Properties	content: simple minOccurs: 0 maxOccurs: unbounded
Facets	enumeration: S-101 enumeration: S-102 enumeration: S-111 enumeration: S-112

	enumeration	S-122
	enumeration	S-124
	enumeration	S-411
	enumeration	S-412

Source

```
<xs:element name="additionalICProduct" type="dataProduct" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>Product covered in the interoperability catalogues</xs:documentation>
  </xs:annotation>
</xs:element>
```

Element S100_IC_OptionalLoadSet / additionalNonICProduct

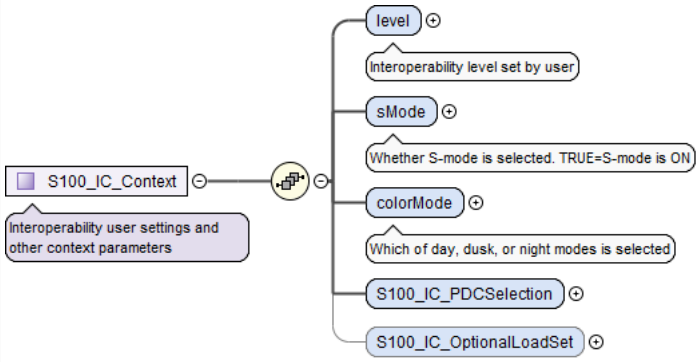
Annotations	product not covered in the interoperability catalogues
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0 maxOccurs: unbounded

Source

```
<xs:element name="additionalNonICProduct" type="xs:string" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>product not covered in the interoperability catalogues</xs:documentation>
  </xs:annotation>
</xs:element>
```

Complex Type(s)

Complex Type S100_IC_Context

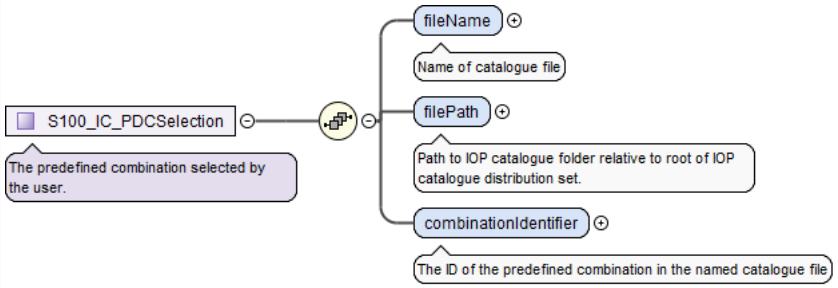
Annotations	Interoperability user settings and other context parameters
Diagram	
Children	S100_IC_OptionalLoadSet, S100_IC_PDCSelection, colorMode, level, sMode

Source

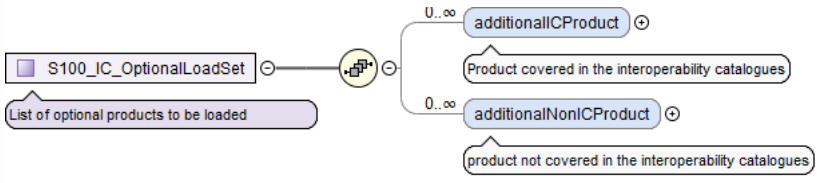
```
<xs:complexType name="S100_IC_Context">
  <xs:annotation>
    <xs:documentation>Interoperability user settings and other context parameters</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="level" type="xs:nonNegativeInteger" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>Interoperability level set by user</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="sMode" type="xs:boolean" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>Whether S-mode is selected. TRUE=S-mode is ON</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="colorMode" type="colorMode" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>Which of day, dusk, or night modes is selected</xs:documentation>
      </xs:annotation>
    </xs:element>
```

```
    <xs:element name="S100_IC_PDCSelection" type="S100_IC_PDCSelection" minOccurs="1" maxOccurs="1"/
>
    <xs:element name="S100_IC_OptionalLoadSet" type="S100_IC_OptionalLoadSet" minOccurs="0"
 maxOccurs="1"/>
  </xs:sequence>
</xs:complexType>
```

Complex Type S100_IC_PDCSelection

Annotations	The predefined combination selected by the user.
Diagram	
Children	combinationIdentifier, fileName, filePath
Source	<xs:complexType name="S100_IC_PDCSelection"> <xs:annotation> <xs:documentation>The predefined combination selected by the user.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="fileName" type="xs:string" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>Name of catalogue file</xs:documentation> </xs:annotation> </xs:element> <xs:element name="filePath" type="xs:string" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>Path to IOP catalogue folder relative to root of IOP catalogue distribution set.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="combinationIdentifier" type="xs:string" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>The ID of the predefined combination in the named catalogue file</xs:documentation> </xs:annotation> </xs:element> <!--<xs:element name="optionalProducts" type="xs:string" minOccurs="0" maxOccurs="1"/>--> </xs:sequence> </xs:complexType>

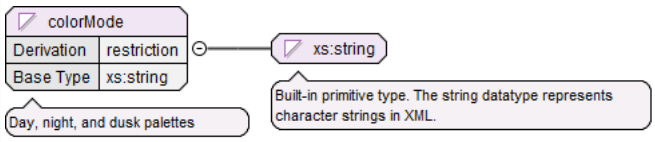
Complex Type S100_IC_OptionalLoadSet

Annotations	List of optional products to be loaded
Diagram	
Children	additionalICProduct, additionalNonICProduct
Source	<xs:complexType name="S100_IC_OptionalLoadSet"> <xs:annotation> <xs:documentation>List of optional products to be loaded</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="additionalICProduct" type="dataProduct" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>Product covered in the interoperability catalogues</xs:documentation> </xs:annotation> </xs:element> <xs:element name="additionalNonICProduct" type="xs:string" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>product not covered in the interoperability catalogues</xs:documentation> </xs:annotation>

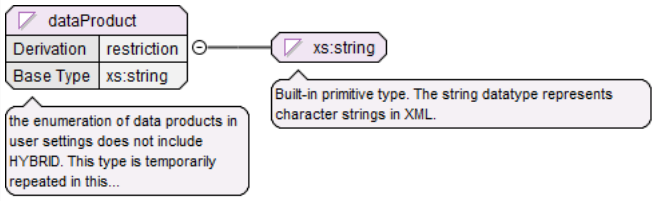
```
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

Simple Type(s)

Simple Type `colorMode`

Annotations	Day, night, and dusk palettes
Diagram	
Type	restriction of xs:string
Facets	enumeration day — Day color palette or mode enumeration dusk — Dusk color palette or mode enumeration night — Night color palette or mode
Source	<xs:simpleType name="colorMode"> <xs:annotation> <xs:documentation>Day, night, and dusk palettes</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="day"> <xs:annotation> <xs:documentation>Day color palette or mode</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="dusk"> <xs:annotation> <xs:documentation>Dusk color palette or mode</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="night"> <xs:annotation> <xs:documentation>Night color palette or mode</xs:documentation> </xs:annotation> </xs:enumeration> </xs:restriction> </xs:simpleType>

Simple Type `dataProduct`

Annotations	the enumeration of data products in user settings does not include HYBRID. This type is temporarily repeated in this schema instead of importing the main IC model in order to avoid importation of the GML schemas just for schema validation, since they are not used elsewhere in this schema
Diagram	
Type	restriction of xs:string
Facets	enumeration S-101 enumeration S-102 enumeration S-111 enumeration S-112 enumeration S-122 enumeration S-124 enumeration S-411 enumeration S-412
Source	<xs:simpleType name="dataProduct"> <xs:annotation>

```
    <xs:documentation>the enumeration of data products in user settings does not include HYBRID.
 This type is temporarily repeated in this schema instead of importing the main IC model in order to
 avoid importation of the GML schemas just for schema validation, since they are not used elsewhere
 in this schema</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="S-101"/>
    <xs:enumeration value="S-102"/>
    <xs:enumeration value="S-111"/>
    <xs:enumeration value="S-112"/>
    <xs:enumeration value="S-122"/>
    <xs:enumeration value="S-124"/>
    <xs:enumeration value="S-411"/>
    <xs:enumeration value="S-412"/>
  </xs:restriction>
</xs:simpleType>
```