DR 17-0015 — SML: CT\_GradientFill Attribute Limits

Status: Open

Subject: SML: CT\_GradientFill Attribute Limits

Qualifier: Technical defect

Submitter: Charlie Clark Organization: Ecma/Clark Consulting & Research

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Submitter’s Defect Number: None

Supporting Document(s): None

Date Circulated by Secretariat: 2017-06-20

Deadline for Response from Editor: 2017-08-20

IS 29500 Reference(s): 29500:2016, Part 1, §18.8.24, “gradientFill (Gradient)”, p. 1768–1771

Related DR(s): None

Nature of the Defect:

In the narrative, the attributes left, right, top, and bottom have declared limits, yet those limits are not enforced by the schema, as follows:

|  |  |
| --- | --- |
| Attributes | Description |
| bottom (BottomConvergence) | This attribute is restricted to values ranging from 0 to 1. … |
| left (LeftConvergence) | This attribute is restricted to values ranging from 0 to 1. … |
| right (RightConvergence) | This attribute is restricted to values ranging from 0 to 1. … |
| top (Top GradientConvergence) | This attribute is restricted to values ranging from 0 to 1. … |

**XSD Schema, pp. 3937–3938, lines 3529–3549**

<xsd:complexType name="CT\_GradientFill">

 <xsd:sequence>

 <xsd:element name="stop" type="CT\_GradientStop" minOccurs="0"

 maxOccurs="unbounded"/>

 </xsd:sequence>

 <xsd:attribute name="type" type="ST\_GradientType" use="optional"

 default="linear"/>

 <xsd:attribute name="degree" type="xsd:double" use="optional" default="0"/>

 <xsd:attribute name="left" type="xsd:double" use="optional" default="0"/>

 <xsd:attribute name="right" type="xsd:double" use="optional" default="0"/>

 <xsd:attribute name="top" type="xsd:double" use="optional" default="0"/>

 <xsd:attribute name="bottom" type="xsd:double" use="optional" default="0"/>

</xsd:complexType>

Solution Proposed by the Submitter:

<xsd:complexType name="CT\_GradientFill">

 …

 <xsd:attribute name="left" type="xsd:double" use="optional" default="0"

 min="0" max="1"/>

 <xsd:attribute name="right" type="xsd:double" use="optional" default="0"

 min="0" max="1"/>

 <xsd:attribute name="top" type="xsd:double" use="optional" default="0"

 min="0" max="1"/>

 <xsd:attribute name="bottom" type="xsd:double" use="optional" default="0"

 min="0" max="1"/>

</xsd:complexType>

Schema Change(s) Needed:

Yes

**Editor’s Response:**

None

Changes to Part 1: N Part 2: N Part 3: N Part 4: N