

**Proposed Responses to DRs  
08-0001 through 08-0008, and 09-0033**

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1 **DR 08-0001 – DML, Framework: Removal of ST\_PercentageDecimal from the**  
2 **strict version of the schema**

3 **The following schema change will be made to Part 1, §A.4.1:**

```
<del>xsd:simpleType name="ST_PercentageDecimal">  
  <del>xsd:restriction base="xsd:int"/>  
</del>xsd:simpleType</del>
```

4

5 **The following schema change will be made to Part 4, §A.4.1**

```
<xsd:simpleType name="ST_PercentageDecimal">  
  <xsd:restriction base="xsd:int"/>  
</xsd:simpleType>
```

6

7 **Part 1, §20.1.10.41 will be updated as follows:**

8 **~~20.1.10.41~~ ~~ST\_PercentageDecimal (Percentage as Decimal Number)~~**

9 ~~This simple type represents a percentage in 1000ths of a percent, e.g., a value of 1 represents 0.001% ==~~  
10 ~~0.00001; a value of 100000 is equal to 100%. Percentages have no intrinsic units, but are used to scale~~  
11 ~~other values with units.~~

12 ~~This simple type's contents are a restriction of the W3C XML Schema int datatype.~~

**Referenced By**

~~ST\_Percentage (§xx); ST\_TextBulletSizePercent (§0)~~

13

14 ~~[Note: The W3C XML Schema definition of this simple type's content model (ST\_PercentageDecimal) is~~  
15 ~~located in §xx. end note]~~

16 **New subclause in Part 4, §12.1.2**

17 **12.1.2.xx ST\_PercentageDecimal (Percentage as Decimal Number)**

18 This simple type represents a percentage in 1000ths of a percent, e.g., a value of 1 represents 0.001% ==  
19 0.00001; a value of 100000 is equal to 100%. Percentages have no intrinsic units, but are used to scale  
20 other values with units.

21 This simple type's contents are a restriction of the W3C XML Schema int datatype.

**Referenced By**

ST\_Percentage (Part 1, §xx)

22

23 [Note: The W3C XML Schema definition of this simple type's content model (ST\_PercentageDecimal) is  
24 located in §xx. end note]

1 **Part 4, §12.1.2.2 will be updated as follows:**

2 *Additional member types for the union in ST\_Percentage (Part 1, §20.1.10.40)*

3 The value space of the following additional member types can be used within the context of this simple  
4 type for a document of a transitional conformance class.

5 • The ST\_PercentageDecimal simple type (~~Part 1, §20.1.10.41~~ [Part 4, §NEW](#)).

6

1 **DR 08-0002 – Primer: Format of ST\_PositivePercentage values in strict mode**  
2 **examples**

3 **Part 1, §20.1.10.46 will be updated as follows:**

4 **20.1.10.46** *ST\_PositivePercentage (Positive Percentage Value with Sign)*  
5

6 **Part 1, §19.5.83 will be updated as follows:**

7 [*Example:* Consider a text animation where the words appear letter by letter every 10th of the  
8 animation duration. The <tmPct> element should be used as follows:

9 <p:par>  
10 <p:cTn id="5" >  
11 <p:stCondLst> ... </p:stCondLst>  
12 <p:iterate type="lt">  
13 <p:tmPct val="~~10000~~10.000%10%"/>  
14 </p:iterate>  
15 <p:childTnLst> ... </p:childTnLst>  
16 </p:cTn>  
17 </p:par>  
18 *end example]*  
19

20 **Part 1, §M.4.6.2.2 will be updated as follows:**

21 <xsd:complexType name="CT\_Camera">  
22 ...  
23 <xsd:attribute name="zoom" type="ST\_PositivePercentage"  
24 use="optional" default="~~100000~~100.000%100%" />  
25 </xsd:complexType>  
26

1 **DR 08-0003 – DML, Main: Format of ST\_PositivePercentage values in strict**  
2 **mode examples**

3 **Part 1, §20.1.5.5 will be updated as follows:**

zoom (Zoom)	... <a:camera prst="perspectiveContrastingRightFacing" fov="6900000" zoom=" <del>200000</del> <u>200.000%200%</u> "> <a:rot lat="1200000" lon="1800000" rev="1200000"/> /a:camera> ...
-------------	---

4

1 **DR 08-0004 – DML, Diagrams: Type for prSet attributes**

2 **New subclause in Part 1, §21.4.7**

3 **21.4.7.xx ST PrSetCustVal (Property Set Customized Value)**

4 This simple type defines customization percentage values for certain elements in DrawingML.

5 This simple type is a union of the following types:

- 6 • The ST\_Percentage simple type (§22.9.2.9).

<u>Referenced By</u>
<u>prSet@custScaleX (§21.4.3.4); prSet@custScaleY (§21.4.3.4); prSet@custLinFactX (§21.4.3.4); prSet@custLinFactY (§21.4.3.4); prSet@ custLinFactNeighborX (§21.4.3.4); prSet@ custLinFactNeighborY (§21.4.3.4); prSet@ custRadScaleRad (§21.4.3.4); prSet@custRadScaleInc (§21.4.3.4);</u>

7

8 [Note: The W3C XML Schema definition of this simple type’s content model (ST\_PrSetCustVal) is located  
9 in §xx. end note]

10 **New subclause in Part 4, §12.1.2**

11 **12.1.2.xx Additional member types for the union in ST\_PrSetCustVal (Part 1, §NEW)**

12 The value space of the following additional member types can be used within the context of this simple  
13 type for a document of a transitional conformance class.

- 14 • The W3C XML Schema int datatype.

15

16 **Part 1, §21.4.3.4 will be updated as follows:**

custLinFactNeighborX (Neighbor Offset Width)	Specifies the percentage of the neighbor's width used for offsetting shape. The possible values for this attribute are defined by the <del>W3C XML Schema int datatype</del> <u>ST_PrSetCustVal simple type (§NEW)</u> .
custLinFactNeighborY (Neighbor Offset Height)	Specifies the percentage of the neighbor's height used for offsetting shape. The possible values for this attribute are defined by the <del>W3C XML Schema int datatype</del> <u>ST_PrSetCustVal simple type (§NEW)</u> .
custLinFactX (Custom Factor Width)	Specifies the percentage of the current shape width used for offsetting the shape. The possible values for this attribute are defined by the <del>W3C XML Schema int datatype</del> <u>ST_PrSetCustVal simple type (§NEW)</u> .

custLinFactY (Custom Factor Height)	Specifies the percentage of the current shape height used for offsetting the shape.  The possible values for this attribute are defined by the <del>W3C XML Schema int datatype</del> <a href="#">ST PrSetCustVal simple type (\$NEW)</a> .
custRadScaleInc (Include Angle Scale)	Specifies the <del>amount</del> percent that the include angle has been scaled by.  The possible values for this attribute are defined by the <del>W3C XML Schema int datatype</del> <a href="#">ST PrSetCustVal simple type (\$NEW)</a> .
custRadScaleRad (Radius Scale)	Specifies <del>the percent that how much</del> the radius has been scaled by.  The possible values for this attribute are defined by the <del>W3C XML Schema int datatype</del> <a href="#">ST PrSetCustVal simple type (\$NEW)</a> .
custScaleX (Width Scale)	Specifies the <del>amount</del> percent that the width has been scaled by.  The possible values for this attribute are defined by the <del>W3C XML Schema int datatype</del> <a href="#">ST PrSetCustVal simple type (\$NEW)</a> .
custScaleY (Height Scale)	Specifies the <del>amount</del> percent that the height has been scaled by.  The possible values for this attribute are defined by the <del>W3C XML Schema int datatype</del> <a href="#">ST PrSetCustVal simple type (\$NEW)</a> .

1

2 **The following schema changes will be made to Part 1, §A.5.3:**

```
<xsd:simpleType name="ST PrSetCustVal">
  <xsd:annotation
    <xsd:documentation>Property Set Customized Value</xsd:documentation>
  </xsd:annotation>
  <xsd:union memberTypes="s:ST Percentage"/>
</xsd:simpleType>
```

3

```
<xsd:attribute name="custScaleX" type="xsd:intST PrSetCustVal" use="optional">
  <xsd:annotation
    <xsd:documentation>Width Scale</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="custScaleY" type="xsd:intST PrSetCustVal" use="optional">
  <xsd:annotation
    <xsd:documentation>Height Scale</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="custT" type="xsd:boolean" use="optional">
  <xsd:annotation
    <xsd:documentation>Text Changed</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="custLinFactX" type="xsd:intST PrSetCustVal" use="optional">
  <xsd:annotation
    <xsd:documentation>Custom Factor Width</xsd:documentation>
  </xsd:annotation>
```

```

</xsd:attribute>
<xsd:attribute name="custLinFactY" type="xsd:intST PrSetCustVal" use="optional">
  <xsd:annotation>
    <xsd:documentation>Custom Factor Height</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="custLinFactNeighborX" type="xsd:intST PrSetCustVal" use="optional">
  <xsd:annotation>
    <xsd:documentation>Neighbor Offset Width</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="custLinFactNeighborY" type="xsd:intST PrSetCustVal" use="optional">
  <xsd:annotation>
    <xsd:documentation>Neighbor Offset Height</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="custRadScaleRad" type="xsd:intST PrSetCustVal" use="optional">
  <xsd:annotation>
    <xsd:documentation>Radius Scale</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="custRadScaleInc" type="xsd:intST PrSetCustVal" use="optional">
  <xsd:annotation>
    <xsd:documentation>Include Angle Scale</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>

```

1

2 **The following schema changes will be made to Part 4, §A.5.3:**

```

<xsd:simpleType name="ST PrSetCustVal">
  <xsd:annotation>
    <xsd:documentation>Property Set Customized Value</xsd:documentation>
  </xsd:annotation>
  <xsd:union memberTypes="s:ST Percentage xsd:int"/>
</xsd:simpleType>

```

3

```

<xsd:attribute name="custScaleX" type="xsd:intST PrSetCustVal" use="optional">
  <xsd:annotation>
    <xsd:documentation>Width Scale</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="custScaleY" type="xsd:intST PrSetCustVal" use="optional">
  <xsd:annotation>
    <xsd:documentation>Height Scale</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="custT" type="xsd:boolean" use="optional">
  <xsd:annotation>
    <xsd:documentation>Text Changed</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="custLinFactX" type="xsd:intST PrSetCustVal" use="optional">
  <xsd:annotation>
    <xsd:documentation>Custom Factor Width</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>

```



```
<xsd:attribute name="custLinFactY" type="xsd:intST PrSetCustVal" use="optional">
  <xsd:annotation>
    <xsd:documentation>Custom Factor Height</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="custLinFactNeighborX" type="xsd:intST PrSetCustVal" use="optional">
  <xsd:annotation>
    <xsd:documentation>Neighbor Offset Width</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="custLinFactNeighborY" type="xsd:intST PrSetCustVal" use="optional">
  <xsd:annotation>
    <xsd:documentation>Neighbor Offset Height</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="custRadScaleRad" type="xsd:intST PrSetCustVal" use="optional">
  <xsd:annotation>
    <xsd:documentation>Radius Scale</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="custRadScaleInc" type="xsd:intST PrSetCustVal" use="optional">
  <xsd:annotation>
    <xsd:documentation>Include Angle Scale</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
```

1

2

1 **DR 08-0005 – PML, Animation: Description of hsl attributes Lightness and**  
2 **Saturation**

3 **Part 1, §19.5.46 will be updated as follows:**

Attributes	Description
...	...
l (Lightness)	<p>Specifies a lightness <del>as fixed percentage in 1000ths of a percent when no percent sign is included in the value or as percent when a percent sign is present</del> <a href="#">as a percentage</a>. The values range from [-100%, 100%].</p> <p>The possible values for this attribute are defined by the ST_FixedPercentage simple type (§xx).</p>
s (Saturation)	<p>Specifies a saturation <del>as fixed percentage in 1000ths of a percent when no percent sign is included in the value or as percent when a percent sign is present</del> <a href="#">as a percentage</a>. The values range from [-100%, 100%].</p> <p>The possible values for this attribute are defined by the ST_FixedPercentage simple type (§xx).</p>

1 **DR 08-0006 – PML, Animation: Description of rgb attributes Blue, Green and**  
2 **Red**

3 **Part 1, §19.5.63 will be updated as follows:**

Attributes	Description
b (Blue)	<p>This attribute specifies a blue <del>as fixed percentage in 1000ths of a percent when no percent sign is included in the value or as percent when a percent sign is present</del> <u>as a percentage</u>. Values range from [-100%, 100%].</p> <p>The possible values for this attribute are defined by the ST_FixedPercentage simple type (\$xx).</p>
g (Green)	<p>This attribute specifies a green <del>as fixed percentage in 1000ths of a percent when no percent sign is included in the value or as percent when a percent sign is present</del> <u>as a percentage</u>. Values range from [-100%, 100%].</p> <p>The possible values for this attribute are defined by the ST_FixedPercentage simple type (\$xx).</p>
r (Red)	<p>This attribute specifies a red <del>as fixed percentage in 1000ths of a percent when no percent sign is included in the value or as percent when a percent sign is present</del> <u>as a percentage</u>. Values range from [-100%, 100%].</p> <p>The possible values for this attribute are defined by the ST_FixedPercentage simple type (\$xx).</p>

4

5

1 **DR 08-0007 – DML, Main: Format of ST\_TextBulletSizePercent percentage**

2 **A new subclause will be added to Part 1, §20.1.10:**

3 **20.1.10.xx *ST\_TextBulletSize (Bullet Size Percentage)***

4 This simple type specifies the range that the bullet percent can be. A bullet percent is the size of the  
5 bullet with respect to the text that should follow it, with a minimum size of 25% and maximum of size  
6 400%.

7 This simple type is a union of the following types:

- 8 • The ST\_TextBulletSizePercent simple type (§20.1.10.62)

Referenced By
<a href="#">buSzPct@val (§xx)</a>

9

10 [Note: The W3C XML Schema definition of this simple type’s content model (ST\_TextBulletSize) is  
11 located in §xx. end note]

12

13 **Part 1, §20.1.10.62 will be updated as follows:**

14 ***ST\_TextBulletSizePercent (Bullet Size Percentage)***

15 This simple type specifies the range that the bullet percent can be. A bullet percent is the size of the  
16 bullet with respect to the text that should follow it.

17 This simple type also specifies the following restrictions:

- 18 • This simple type’s contents shall match the following regular expression pattern: `0*((2[5-9])|([3-9][0-9])|([1-3][0-9][0-9])|400)%`.  
19

Referenced By
<a href="#">ST_TextBulletSize (§New)</a>

20

21 [Note: The W3C XML Schema definition of this simple type’s content model (ST\_TextBulletSizePercent) is  
22 located in §xx. end note]

23

24 **A new subclause will be added to Part 4, §12.1.2:**

1 **12.1.2.xx** ***ST TextBulletSizeDecimal (Bullet Size Percentage)***

2 This simple type specifies the range that the bullet percent can be. A bullet percent is the size of the  
3 bullet with respect to the text that should follow it. 25000 = 25%, 400000 = 400%

4 This simple type's contents are a restriction of the ST\_PercentageDecimal datatype (Part 4, §NEW).

5 This simple type also specifies the following restrictions:

- 6 • This simple type has a minimum value of greater than or equal to 25000.
- 7 • This simple type has a maximum value of less than or equal to 400000.

<u>Referenced By</u>
<u>ST_TextBulletSize (Part 1, §NEW)</u>

8  
9 [Note: The W3C XML Schema definition of this simple type's content model (ST\_TextBulletSizeDecimal)  
10 is located in §xx. end note]

11  
12 **A new subclause will be added to Part 4, §12.1.2:**

13 **12.1.2.xx** ***Additional member types for the union in ST\_TextBulletSize (Part 1, §NEW)***

14 The value space of the following additional member types can be used within the context of this simple  
15 type for a document of a transitional conformance class.

- 16 • The ST\_TextBulletSizeDecimal simple type (Part 4, §NEW).

17  
18 **The following schema change will be made to Part 1, §A.4.1:**

```
<xsd:simpleType name="ST_TextBulletSize">  
  <xsd:union memberTypes="ST_TextBulletSizePercent"/>  
</xsd:simpleType>  
<xsd:simpleType name="ST_TextBulletSizePercent">  
  <del><xsd:restriction base="ST_PercentageDecimal">  
    <xsd:minInclusive value="25000"/>  
    <xsd:maxInclusive value="400000"/>  
  </xsd:restriction>  
  <xsd:pattern value="0*((2[5-9])|([3-9][0-9])|([1-3][0-9][0-9])|400)%"/>  
</xsd:simpleType>
```

19  
20 **The following schema change will be made to Part 4, §A.4.1:**

```
<xsd:simpleType name="ST_TextBulletSize">  
  <xsd:union memberTypes="ST_TextBulletSizePercent ST_TextBulletSizeDecimal"/>  
</xsd:simpleType>  
<xsd:simpleType name="ST_TextBulletSizePercent">
```

```
<xsd:restriction base="ST_PercentageDecimal">  
<xsd:minInclusive value="25000"/>  
<xsd:maxInclusive value="400000"/>  
</xsd:restriction>  
<xsd:pattern value="0*((2[5-9])|([3-9][0-9])|([1-3][0-9][0-9])|400)%"/>  
</xsd:simpleType>  
<xsd:simpleType name="ST_TextBulletSizeDecimal">  
  <xsd:restriction base="ST_PercentageDecimal">  
    <xsd:minInclusive value="25000"/>  
    <xsd:maxInclusive value="400000"/>  
  </xsd:restriction>  
</xsd:simpleType>
```

1 **DR 08-0008 – DML, Main: Format of buSzPct percentage values in strict mode**  
2 **example**

3 **Part 1, §21.1.2.4.9 will be updated as follows:**

4 This element specifies the size in percentage of the surrounding text to be used on bullet characters  
5 within a given paragraph. ~~The size is specified using a percentage where 1000 is equal to 1 percent of~~  
6 ~~the font size and 100000 is equal to 100 percent font of the font size.~~

7 [Example: Consider the DrawingML shown below.

```
8 <p:txBody>  
9 ...  
10 <a:p>  
11 <a:pPr ...>  
12 <a:buSzPct val="111000111.000%111%"/>  
13 </a:pPr>  
14 ...  
15 <a:t>Bullet 1</a:t>  
16 ...  
17 </a:p>  
18 ...  
19 </p:txBody>
```

20 The size of the above bullet follows the text size in that it is always rendered at 111% the size of the text  
21 within the given text run. This is specified by val="~~111000~~111.000%111%", with a restriction on the  
22 values not being less than 25% or more than 400%. ~~A value of 100000 is equal to 100%, similarly a value~~  
23 ~~of 1000 is equal to 1%.~~ This percentage size should only apply to the actual bullet character and not to  
24 the text within the bullet. *end example]*

25 ...

Attributes	Description
val (Value)	Specifies the percentage of the text size that this bullet should be. <del>It is specified here in terms of 100% being equal to 100000 and 1% being specified in increments of 1000.</del> This attribute should not be lower than 25%, <del>or 25000</del> and not be higher than 400%, <del>or 400000.</del>  The possible values for this attribute are defined by the ST_TextBulletSize (\$NEW).

26

27

1 **DR 09-0033 – DML, Charts, Simple Types: Lack of support for percent signs**

2 **Part 1, §21.2.2.41 will be updated as follows:**

Attributes	Description
val (Depth Percent Value)	Specifies a percentage value for the property defined by the parent XML element.  The possible values for this attribute are defined by the ST_DepthPercent simple type (§NEW).

3

4 **Part 1, §21.2.3.9 will be updated as follows:**

5 This simple type specifies that its contents contain a percentage between 20% and 2000%.

6 This simple type is a union of the following types:

- 7 • [ST\\_DepthPercentPercent simple type \(§NEW\)](#).

8 **To a new subclause in Part 1, §21.2.3:**

9 **21.2.3.xx ST\_DepthPercentPercent (Depth Percent Percentage)**

10 This simple type specifies that its contents contain a percentage between 20% and 2000%.

11 The simple type's contents shall match the following regular expression pattern: [0\\*\(\(\[2-9\]\[0-9\]\)|\(\[1-9\]\[0-9\]\[0-9\]\)|\(1\[0-9\]\[0-9\]\[0-9\]\)|2000\)%](#).

12

Referenced By
ST_DepthPercent (§21.2.3.9)

13

14 **To Part 1, §A.5.1:**

```
<xsd:simpleType name="ST_DepthPercent">
  <xsd:union memberTypes="ST_DepthPercentPercent"/>
</xsd:simpleType>

<xsd:simpleType name="ST_DepthPercentPercent">
  <xsd:pattern value="0*(([2-9][0-9])|([1-9][0-9][0-9])|(1[0-9][0-9][0-9])|2000)%"/>
</xsd:simpleType>

<xsd:complexType name="CT_DepthPercent">
  <xsd:attribute name="val" type="ST_DepthPercent" default="100%"/>
</xsd:complexType>
```

15

16 **To a new subclause in Part 4, §13.1:**



1 **13.1.xx** *Simple Types*

2 **To a new subclause in Part 4, §13.1.xx (in new Simple Types subclause):**

3 **13.1.xx.xx** *Additional member types for union in ST\_DepthPercent (Part 1, §21.2.3.9)*

4 The value space of the following additional member types can be used within the context of this simple  
5 type for a document of a transitional conformance class.

- 6 • The ST\_DepthPercentUShort simple type ([§NEW](#)).

7 **To a new subclause in Part 4, §13.1.xx (in new Simple Types subclause):**

8 **13.1.xx.xx** *ST\_DepthPercentUShort (Depth Percent UnsignedShort)*

9 This simple type specifies that its contents contain a whole number between 20 and 2000, whose  
10 contents are a percentage.

11 This simple type's contents are a restriction of the W3C XML Schema unsignedShort datatype.

12 This simple type also specifies the following restrictions:

- 13 • This simple type has a minimum value of greater than or equal to 20.
- 14 • This simple type has a maximum value of less than or equal to 2000.

Referenced By
ST_DepthPercent (Part 1, §21.2.3.9)

15

16 **To Part 4, §A.5.1:**

```
17 <xsd:simpleType name="ST_DepthPercent">
18   <xsd:union memberTypes="ST_DepthPercentPercent ST_DepthPercentUShort"/>
19 </xsd:simpleType>
20
21 <xsd:simpleType name="ST_DepthPercentPercent">
22   <xsd:pattern value="0*([2-9][0-9])|([1-9][0-9][0-9])|(1[0-9][0-9][0-9])|2000)% "/>
23 </xsd:simpleType>
24
25 <xsd:simpleType name="ST_DepthPercentUShort">
26   <xsd:restriction base="xsd:unsignedShort">
27     <xsd:minInclusive value="20"/>
28     <xsd:maxInclusive value="2000"/>
29   </xsd:restriction>
30 </xsd:simpleType>
31 <xsd:complexType name="CT_DepthPercent">
32   <xsd:attribute name="val" type="ST_DepthPercent" default="100%"/>
33 </xsd:complexType>
```

34

35 **Part 1, §21.2.2.83 will be updated as follows:**

Attributes	Description
val (Height Percent Value)	<p>Specifies that the contents of this attribute contain a height percent between 5% and 500%.</p> <p>The possible values for this attribute are defined by the ST_HPercent simple type (\$xx).</p>

1

2 **Part 1, §21.2.3.19 will be updated as follows:**

3 This simple type specifies that its contents contain a percentage between 5% and 500%.

4 This simple type is a union of the following types:

- 5 • [ST\\_HPercentPercent simple type \(§NEW\)](#).

6 **To a new subclause in Part 1, §21.2.3:**

7 **21.2.3.xx ST\_HPercentPercent (Height Percent Percentage)**

8 This simple type specifies that its contents contain a percentage between 5% and 500%.

9 The simple type's contents shall match the following regular expression pattern: `0*([5-9]|([1-9][0-9])|([1-4][0-9][0-9])|500)%`.

10

Referenced By
ST_HPercent (§21.2.3.19)

11

12 **To Part 1, §A.5.1:**

```

13 <xsd:simpleType name="ST_HPercent">
14     <xsd:union memberTypes="ST_HPercentPercent"/>
15 </xsd:simpleType>
16
17 <xsd:simpleType name="ST_HPercentPercent">
18     <xsd:pattern value="0*([5-9]|([1-9][0-9])|([1-4][0-9][0-9])|500)%"/>
19 </xsd:simpleType>
20
21 <xsd:complexType name="CT_HPercent">
22     <xsd:attribute name="val" type="ST_HPercent" default="100%"/>
23 </xsd:complexType>
24
25

```

25

26 **To a new subclause in Part 4, §13.1.xx (in new Simple Types subclause):**

1 **13.1.xx.xx Additional member types for union in ST\_HPercent (Part 1, §21.2.3.19)**

2 The value space of the following additional member types can be used within the context of this simple  
3 type for a document of a transitional conformance class.

- 4 • The ST\_HPercentUShort simple type ([§NEW](#)).

5 **To a new subclause in Part 4, §13.1.xx (in new Simple Types subclause):**

6 **13.1.xx.xx ST\_HPercentUShort (Depth Percent UnsignedShort)**

7 This simple type specifies that its contents contain a whole number between 5 and 500, whose contents  
8 are a percentage.

9 This simple type's contents are a restriction of the W3C XML Schema unsignedShort datatype.

10 This simple type also specifies the following restrictions:

- 11 • This simple type has a minimum value of greater than or equal to 5.
- 12 • This simple type has a maximum value of less than or equal to 500.

Referenced By
---------------

ST_HPercent (Part 1, §21.2.3.19)
----------------------------------

13

14 **To Part 4, §A.5.1:**

```
15 <xsd:simpleType name="ST_HPercent">  
16     <xsd:union memberTypes="ST_HPercentPercent ST_HPercentUShort"/>  
17 </xsd:simpleType>  
18  
19  
20 <xsd:simpleType name="ST_HPercentPercent">  
21     <xsd:pattern value="0*([5-9])|([1-9][0-9])|([1-4][0-9][0-9])|500)%"/>  
22 </xsd:simpleType>  
23  
24 <xsd:simpleType name="ST_HPercentUShort">  
25     <xsd:restriction base="xsd:unsignedShort">  
26         <xsd:minInclusive value="5"/>  
27         <xsd:maxInclusive value="500"/>  
28     </xsd:restriction>  
29 </xsd:simpleType>  
30  
31 <xsd:complexType name="CT_HPercent">  
32     <xsd:attribute name="val" type="ST_HPercent" default="100%"/>  
33 </xsd:complexType>
```

34

35

# 1 WordprocessingML Other Percentage Sign Affected Areas

2 **To Part 1, §17.3.2.43:**

## 3 **17.3.2.43 w (Expanded/Compressed Text)**

4 ...

5 [Example: ...

```
6 <w:rPr>  
7   <w:w w:val="200%" />  
8 </w:rPr>  
9
```

10 This run explicitly declares that the w value is 200%, so the contents of this run appear at 200% of their  
11 normal character width by stretching the width of each character. *end example*]

12 ...

Attributes	Description
val (Text Expansion/Compression Value)	... [Example: ... <w:rPr> <w:w w:val="50%" /> </w:rPr>  This run explicitly declares that the w value is 50%, so the contents of this run appear at 50% of their normal character width by compressing the width of each character. <i>end example</i> ] ...

13

14 **To Part 1, §17.18.95:**

## 15 **17.18.95 ST\_TextScale (Text Expansion/Compression Percentage)**

16 ... [Example: ...

```
17 <w:rPr>  
18   <w:w w:val="50%" />  
19 </w:rPr>  
20
```

21 This run explicitly declares that the w value is 50%, so the contents of this run appear at 50% of their  
22 normal character width by compressing the width of each character. *end example*]

23 This simple type's contents are a restriction of the W3C XML Schema integer datatype. [is a union of the following types:](#)

- 24 • [The ST\\_TextScalePercent simple type \(\\$NEW\).](#)

1 This simple type also specifies the following restrictions:

- 2 ~~• This simple type has a minimum value of greater than or equal to 0.~~
- 3 ~~• This simple type has a maximum value of less than or equal to 600.~~

4 ...

5 **To a new subclause in Part 1, §17.18:**

6 **17.18.xx ST TextScalePercent (Text Expansion/Compression Percentage)**

7 This simple type specifies that the percentage by which the contents of a run shall be expanded or  
8 compressed with respect to its normal (100%) character width, with a minimum width of 1% and  
9 maximum width of 600%.

10 [Example: Consider a run of text which must be compressed to 200% when displaying each character  
11 within the contents of the run. This constraint is specified using the following WordprocessingML:

```
12 <w:rPr>  
13 <w:w w:val="50%" />  
14 </w:rPr>
```

15 This run explicitly declares that the w value is 50%, so the contents of this run appear at 50% of their  
16 normal character width by compressing the width of each character. end example]

17 This simple type also specifies the following restrictions:

- 18 • This simple type's contents shall match the following regular expression pattern: 0\*(600|([0-  
19 5]?[0-9]?[0-9]))%.

<u>Referenced By</u>
<u>ST TextScale (§17.18.95)</u>

20

21 [Note: The W3C XML Schema definition of this simple type's content model (ST TextScalePercent) is  
22 located in §xx. end note]

23 **To Part 1, §A.1:**

```
24 <xsd:simpleType name="ST_TextScale">  
25 <xsd:union memberTypes="ST_TextScalePercent"/>  
26 <xsd:restriction base="xsd:integer">  
27 <xsd:minInclusive value="0"/>  
28 <xsd:maxInclusive value="600"/>  
29 </xsd:restriction>  
30 </xsd:simpleType>  
31 <xsd:simpleType name="ST_TextScalePercent">  
32 <xsd:pattern value="0*(600|([0-5]?[0-9]?[0-9]))%"/>  
33 </xsd:simpleType>
```

34

1 **To Part 4, a new subclause in §9.10:**

2 **9.10.xx Additional member types for the union in ST TextScale (Part 1, §17.18.95)**

3 The value space of the following additional member types can be used within the context of this simple  
4 type for a document of a transitional conformance class.

- 5 • The ST\_TextScaleDecimal simple type (§NEW).

6 **To Part 4, a new subclause in §9.10:**

7 **9.10.xx ST TextScaleDecimal (Text Expansion/Compression Percentage)**

8 This simple type specifies that the percentage by which the contents of a run shall be expanded or  
9 compressed with respect to its normal (100%) character width, with a minimum width of 1% and  
10 maximum width of 600%.

11 [Example: Consider a run of text which must be expanded to 300% when displaying each character  
12 within the contents of the run. This constraint is specified using the following WordprocessingML:

13 `<w:rPr>`  
14 `<w:w w:val="300"/>`  
15 `</w:rPr>`

16 This run explicitly declares that the w value is 300, so the contents of this run appear at 300% of their  
17 normal character width by expanding the width of each character. end example]

18 This simple type's contents are a restriction of the W3C XML Schema integer datatype.

19 This simple type also specifies the following restrictions:

- 20 • This simple type has a minimum value of greater than or equal to 0.
- 21 • This simple type has a maximum value of less than or equal to 600.

<u>Referenced By</u>
----------------------

<u>ST TextScale (§17.18.95)</u>
---------------------------------

22

23 **To Part 4, §A.1:**

```
24 <xsd:simpleType name="ST_TextScale">
25   <xsd:union memberTypes="ST_TextScalePercent ST_TextScaleDecimal"/>
26   <del>xsd:restriction base="xsd:integer">
27     <del>xsd:minInclusive value="0"/>
28     <del>xsd:maxInclusive value="600"/>
29   </del>xsd:restriction>
30 </xsd:simpleType>
31 <xsd:simpleType name="ST_TextScalePercent">
32   <xsd:pattern value="0*(600|([0-5]?[0-9]?[0-9]))%"/>
33 </xsd:simpleType>
34 <xsd:simpleType name="ST_TextScaleDecimal">
35   <xsd:restriction base="xsd:integer">
```

1  
2  
3  
4  
5  
6

```
<xsd:minInclusive value="0"/>  
<xsd:maxInclusive value="600"/>  
</xsd:restriction>  
</xsd:simpleType>
```

# 1 SpreadsheetML Other Percentage Sign Affected Areas

2 **To Part 1, §18.18, “Simple Types”:**

## 3 **ST\_IntegerPosNumberOrPercent (Percentage Measurement)**

4 This simple type specifies that its contents will contain a positive integer percentage-based value. See  
5 the union's member types for details.

6 This simple type is a union of the following types:

- 7 • The ST\_IntegerPosPercentage simple type (§NEW).

8 Referenced By
9 ...

10 [Note: The W3C XML Schema definition of this simple type's content model  
(ST\_IntegerPosNumberOrPercent) is located in §xx. *end note*]

11 **To Part 1, §A.1:**

```
12 <xsd:simpleType name="ST_IntegerPosNumberOrPercent">  
13     <xsd:union memberTypes="ST_IntegerPosPercentage"/>  
14 </xsd:simpleType>  
15  
16 <xsd:simpleType name="ST_IntegerPosPercentage">  
17     <xsd:pattern value="0*([0-9][0-9])|100)%"/>  
18 </xsd:simpleType>
```

19  
20 **To a new subclause in Part 4, §13.1.xx (in new Simple Types subclause):**

## 21 **Additional member types for union in ST\_IntegerPosNumberOrPercent (Part 1, §NEW)**

22 The value space of the following additional member types can be used within the context of this simple  
23 type for a document of a transitional conformance class.

- 24 • The xsd:unsignedInt datatype (§NEW).

25  
26 **To Part 4, §A.1:**

```
27 <xsd:simpleType name="ST_IntegerPosNumberOrPercent">  
28     <xsd:union memberTypes="ST_IntegerPosPercentage xsd:unsignedInt"/>
```



```

1 </xsd:simpleType>
2
3 <xsd:simpleType name="ST_IntegerPosPercentage">
4   <xsd:pattern value="0*([0-9][0-9])|100%"/>
5 </xsd:simpleType>
6

```

7 **To Part 1, §18.3.1.24:**

8 *customSheetView (Custom Chart Sheet View)*

Attributes	Description
scale (Print Scale)	... The possible values for this attribute are defined by the ST_IntegerPosNumberOrPercent simple type.

9

10 **To Part 1, §A.2:**

```

11 <xsd:complexType name="CT_CustomSheetView">
12   ...
13   <xsd:attribute name="guid" type="s:ST_Guid" use="required"/>
14   <xsd:attribute name="scale" type="ST_IntegerPosNumberOrPercent" default="100%"/>
15   <xsd:attribute name="colorId" type="xsd:unsignedInt" default="64"/>
16   ...
17 </xsd:complexType>
18

```

19 **To Part 1, §18.3.1.25:**

20 *customSheetView (Custom Sheet View)*

21 ...

Attributes	Description
scale (Print Scale)	... The possible values for this attribute are defined by the ST_IntegerPosNumberOrPercent simple type.

22

23 **To Part 1, §A.2:**

```

24 <xsd:complexType name="CT_CustomChartsheetView">
25   ...
26   <xsd:attribute name="guid" type="s:ST_Guid" use="required"/>
27   <xsd:attribute name="scale" type="ST_IntegerPosNumberOrPercent" default="100%"/>
28   <xsd:attribute name="state" type="ST_SheetState" default="visible"/>
29   <xsd:attribute name="zoomToFit" type="xsd:boolean" use="optional" default="false"/>
30 </xsd:complexType>
31

```

31

1 **To Part 1, §18.3.1.28:**

2 *dataBar (Data Bar)*

3 ...

Attributes	Description
maxLength (Maximum Length)	The maximum length of the data bar, as a percentage of the cell width.  The possible values for this attribute are defined by the ST_IntegerPosNumberOrPercent simple type.
minLength (Minimum Length)	The minimum length of the data bar, as a percentage of the cell width.  The possible values for this attribute are defined by the ST_IntegerPosNumberOrPercent simple type.

4

5 **To Part 1, §A.2:**

```
6 <xsd:complexType name="CT_DataBar">
7   ...
8   <xsd:attribute name="minLength" type="ST_IntegerPosNumberOrPercent" use="optional"
9     default="10%" />
10  <xsd:attribute name="maxLength" type="ST_IntegerPosNumberOrPercent" use="optional"
11    default="90%" />
12  <xsd:attribute name="showValue" type="xsd:boolean" use="optional" default="true" />
13 </xsd:complexType>
```

14

15 **To Part 1, §18.3.1.63:**

16 *pageSetup (Page Setup Settings)*

17 ...

Attributes	Description
scale (Print Scale)	...  The possible values for this attribute are defined by the ST_IntegerPosNumberOrPercent simple type.

18

19 **To Part 1, §A.2:**

```
20 <xsd:complexType name="CT_PageSetup">
21   <xsd:attribute name="paperSize" type="xsd:unsignedInt" use="optional" default="1" />
22   <xsd:attribute name="paperHeight" type="s:ST_PositiveUniversalMeasure" use="optional" />
23   <xsd:attribute name="paperWidth" type="s:ST_PositiveUniversalMeasure" use="optional" />
24   <xsd:attribute name="scale" type="ST_IntegerPosNumberOrPercent" use="optional"
25     default="100%" />
```

```

1      <xsd:attribute name="firstPageNumber" type="xsd:unsignedInt" use="optional"
2          default="1"/>
3      ...
4  </xsd:complexType>

```

5

6 **To Part 1, §18.3.1.86:**

7 *sheetView (Chart Sheet View)*

8 ...

Attributes	Description
zoomScale (Window Zoom Scale)	... The possible values for this attribute are defined by theST_IntegerPosNumberOrPercent simple type.

9

10 **To Part 1, §A.2:**

```

11 <xsd:complexType name="CT_ChartsheetView">
12   <xsd:sequence>
13     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
14   </xsd:sequence>
15   <xsd:attribute name="tabSelected" type="xsd:boolean" use="optional" default="false"/>
16   <xsd:attribute name="zoomScale" type="ST_IntegerPosNumberOrPercent" default="100%"
17     use="optional"/>
18   <xsd:attribute name="workbookViewId" type="xsd:unsignedInt" use="required"/>
19   <xsd:attribute name="zoomToFit" type="xsd:boolean" use="optional" default="false"/>
20 </xsd:complexType>

```

21

22 **To Part 1, §18.3.1.87:**

23 *sheetView (Worksheet View)*

24 ...

Attributes	Description
zoomScale (Zoom Scale)	... Current view can be Normal, Page Layout, or Page Break Preview.  The possible values for this attribute are defined by the ST_IntegerPosNumberOrPercent simple type.
zoomScaleNormal (Zoom Scale Normal View)	... The possible values for this attribute are defined by the ST_IntegerPosNumberOrPercent simple type.
zoomScalePageLayoutView (Zoom	...

Attributes	Description
Scale Page Layout View)	The possible values for this attribute are defined by the ST_IntegerPosNumberOrPercent simple type.
zoomScaleSheetLayoutView (Zoom Scale Page Break Preview)	... The possible values for this attribute are defined by the ST_IntegerPosNumberOrPercent simple type.

1

2 **To Part 1, §A.2:**

```

3 <xsd:complexType name="CT_SheetView">
4   ...
5   <xsd:attribute name="colorId" type="xsd:unsignedInt" use="optional" default="64"/>
6   <xsd:attribute name="zoomScale" type="ST_IntegerPosNumberOrPercent" use="optional"
7     default="100%"/>
8   <xsd:attribute name="zoomScaleNormal" type="ST_IntegerPosNumberOrPercent"
9     use="optional" default="0%"/>
10  <xsd:attribute name="zoomScaleSheetLayoutView" type="ST_IntegerPosNumberOrPercent"
11    use="optional" default="0%"/>
12  <xsd:attribute name="zoomScalePageLayoutView" type="ST_IntegerPosNumberOrPercent"
13    use="optional" default="0%"/>
14  <xsd:attribute name="workbookViewId" type="xsd:unsignedInt" use="required"/>
15 </xsd:complexType>

```

16

# 1 DrawingML Other Percentage Sign Affected Areas

2 **Part 1, §21.2.2.74 will be updated as follows:**

Attributes	Description
val (Gap Size Value)	Specifies that the contents of this attribute contain a gap amount between 0% and 500%.  The possible values for this attribute are defined by the ST_GapAmount simple type (§xx).

3

4 **Part 1, §21.2.2.75 will be updated as follows:**

Attributes	Description
val (Gap Size Value)	Specifies that the contents of this attribute contain a gap amount between 0% and 500%.  The possible values for this attribute are defined by the ST_GapAmount simple type (§xx).

5

6 **Part 1, §21.2.3.16 will be updated as follows:**

7 This simple type specifies that its contents contain a percentage between 0% and 500%.

8 This simple type is a union of the following types:

- 9 • [ST\\_GapAmountPercent simple type \(§NEW\)](#).

10 **To a new subclause in Part 1, §21.2.3:**

11 **21.2.3.xx ST\_GapAmountPercent (Gap Amount Percentage)**

12 This simple type specifies that its contents contain a percentage between 0% and 500%.

13 The simple type's contents shall match the following regular expression pattern: [0\\*\(\[0-9\]\)|\(\[1-9\]\[0-9\]\)|\(\[1-4\]\[0-9\]\[0-9\]\)|500%](#).

Referenced By
ST_GapAmount (§21.2.3.16)

15

16 **To Part 1, §A.5.1:**

```

1  <xsd:simpleType name="ST_GapAmount">
2
3  <xsd:union memberTypes="ST_GapAmountPercent"/> </xsd:simpleType>
4
5  <xsd:simpleType name="ST_GapAmountPercent">
6    <xsd:pattern value="0*([0-9])|([1-9][0-9])|([1-4][0-9][0-9])|500)%"/>
7  </xsd:simpleType>
8  <xsd:complexType name="CT_GapAmount">
9    <xsd:attribute name="val" type="ST_GapAmount" default="150%"/>
10 </xsd:complexType>

```

11

12 **To a new subclause in Part 4, §13.1.xx (in new Simple Types subclause):**

13 **13.1.xx.xx Additional member types for union in ST\_GapAmount (Part 1, §21.2.3.16)**

14 The value space of the following additional member types can be used within the context of this simple  
15 type for a document of a transitional conformance class.

- 16 • The ST\_GapAmountUShort simple type ([\\$NEW](#)).

17 **To a new subclause in Part 4, §13.1.xx (in new Simple Types subclause):**

18 **13.1.xx.xx ST\_GapAmountUShort (Gap Amount UnsignedShort)**

19 This simple type specifies that its contents contain a whole number between 0 and 500, whose contents  
20 are a percentage.

21 This simple type's contents are a restriction of the W3C XML Schema unsignedShort datatype.

22 This simple type also specifies the following restrictions:

- 23 • This simple type has a minimum value of greater than or equal to 0.
- 24 • This simple type has a maximum value of less than or equal to 500.

Referenced By
ST_GapAmount (Part 1, §21.2.3.16)

25

26 **To Part 4, §A.5.1:**

```

27 <xsd:simpleType name="ST_GapAmount">
28
29   <xsd:union memberTypes="ST_GapAmountPercent ST_GapAmountUShort"/>
30 </xsd:simpleType>
31
32 <xsd:simpleType name="ST_GapAmountPercent">
33   <xsd:pattern value="0*([0-9])|([1-9][0-9])|([1-4][0-9][0-9])|500)%"/>
34 </xsd:simpleType>
35
36 <xsd:simpleType name="ST_GapAmountUShort">

```

```

1      <xsd:restriction base="xsd:unsignedShort">
2          <xsd:minInclusive value="0"/>
3          <xsd:maxInclusive value="500"/>
4      </xsd:restriction>
5  </xsd:simpleType>
6
7  <xsd:complexType name="CT_GapAmount">
8      <xsd:attribute name="val" type="ST_GapAmount" default="150%"/>
9  </xsd:complexType>

```

10

11 **Part 1, §21.2.2.136 will be updated as follows:**

Attributes	Description
val (Perspective Value)	<p>Specifies the contents of this attribute contain a percentage between 0% and 240%.</p> <p>The possible values for this attribute are defined by the ST_Perspective simple type (§xx).</p>

12

13 **Part 1, §21.2.3.34 will be updated as follows:**

14 This simple type specifies that its contents contain a percentage between 0% and 240%.

15 This simple type is a union of the following types:

- 16 • [ST\\_PerspectivePercent simple type \(§NEW\)](#).

17 **To a new subclause in Part 1, §21.2.3:**

18 **21.2.3.xx**      *ST\_PerspectivePercent (Perspective Percentage)*

19 This simple type specifies that its contents contain a percentage between 0% and 240%.

20 The simple type's contents shall match the following regular expression pattern: `0*(((0-9))|((1-9)[0-9]))|(1[0-9][0-9])|(2[0-3][0-9])|240%`.

21

Referenced By
ST_Perspective (§21.2.3.34)

22

23 **To Part 1, §A.5.1:**

```

24 <xsd:simpleType name="ST_Perspective">
25
26     <xsd:union memberTypes="ST_PerspectivePercent"/>
27 </xsd:simpleType>
28

```

28

```

1 <xsd:simpleType name="ST_PerspectivePercent">
2   <xsd:pattern value="0*(([0-9])|([1-9][0-9])|(1[0-9][0-9])|(2|[0-3][0-9])|240)%"/>
3 </xsd:simpleType>
4
5 <xsd:complexType name="CT_Perspective">
6   <xsd:attribute name="val" type="ST_Perspective" default="30%"/>
7 </xsd:complexType>

```

8

9 **To a new subclause in Part 4, §13.1.xx (in new Simple Types subclause):**

10 **13.1.xx.xx Additional member types for union in ST\_Perspective (Part 1, §21.2.3.34)**

11 The value space of the following additional member types can be used within the context of this simple  
 12 type for a document of a transitional conformance class.

- 13 • The ST\_GapPerspectiveUByte simple type ([\\$NEW](#)).

14 **To a new subclause in Part 4, §13.1.xx (in new Simple Types subclause):**

15 **13.1.xx.xx ST\_PerspectiveUByte (Perspective UnsignedByte)**

16 This simple type specifies that its contents contain a whole number between 0 and 240, whose contents  
 17 are a percentage.

18 This simple type's contents are a restriction of the W3C XML Schema unsignedByte datatype.

19 This simple type also specifies the following restrictions:

- 20 • This simple type has a minimum value of greater than or equal to 0.
- 21 • This simple type has a maximum value of less than or equal to 240.

Referenced By
ST_Perspective (Part 1, §21.2.3.34)

22

23 **To Part 4, §A.5.1:**

```

24 <xsd:simpleType name="ST_Perspective">
25   <xsd:union memberTypes="ST_PerspectivePercent ST_PerspectiveUByte"/>
26 </xsd:simpleType>
27
28 <xsd:simpleType name="ST_PerspectivePercent">
29   <xsd:pattern value="0*(([0-9])|([1-9][0-9])|(1[0-9][0-9])|(2|[0-3][0-9])|240)%"/>
30 </xsd:simpleType>
31
32 <xsd:simpleType name="ST_PerspectiveUByte">
33   <xsd:restriction base="xsd:unsignedByte">
34     <xsd:minInclusive value="0"/>
35     <xsd:maxInclusive value="240"/>
36   </xsd:restriction>

```



```

1      </xsd:restriction>
2      </xsd:simpleType>
3
4      <xsd:complexType name="CT_Perspective">
5          <xsd:attribute name="val" type="ST_Perspective" default="30%"/>
6      </xsd:complexType>

```

8 **Part 1, §21.2.2.164 will be updated as follows:**

Attributes	Description
val (Second Pie Size Value)	<p>Specifies the contents of this attribute contain a percentage between 5% and 200%.</p> <p>The possible values for this attribute are defined by the ST_SecondPieSize simple type (§xx).</p>

9

10 **Part 1, §21.2.3.41 will be updated as follows:**

11 This simple type specifies that its contents contain a percentage between 5% and 200%.

12 This simple type is a union of the following types:

- 13 • [ST\\_SecondPieSizePercent simple type \(§NEW\)](#).

14 **To a new subclause in Part 1, §21.2.3:**

15 **21.2.3.xx**      *ST\_SecondPieSizePercent (Second Pie Size Percentage)*

16 This simple type specifies that its contents contain a percentage between 5% and 200%.

17 The simple type's contents shall match the following regular expression pattern: `0*([5-9])|([1-9][0-9])|([10-9][0-9])|200%`.

18

Referenced By
ST_SecondPieSize (§21.2.3.41)

19

20 **To Part 1, §A.5.1:**

```

21      <xsd:simpleType name="ST_SecondPieSize">
22
23          <xsd:union memberTypes="ST_SecondPieSizePercent"/>
24      </xsd:simpleType>
25
26      <xsd:simpleType name="ST_SecondPieSizePercent">
27          <xsd:pattern value="0*([5-9])|([1-9][0-9])|([10-9][0-9])|200%"/>
28      </xsd:simpleType>

```

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```
<xsd:complexType name="CT_SecondPieSize">  
  <xsd:attribute name="val" type="ST_SecondPieSize" default="75%"/>  
</xsd:complexType>
```

6 **To a new subclause in Part 4, §13.1.xx (in new Simple Types subclause):**

7 **13.1.xx.xx Additional member types for union in ST\_SecondPieSize (Part 1, §21.2.3.41)**

8 The value space of the following additional member types can be used within the context of this simple  
9 type for a document of a transitional conformance class.

- 10 • The ST\_SecondPieSizeUShort simple type ([\\$NEW](#)).

11 **To a new subclause in Part 4, §13.1.xx (in new Simple Types subclause):**

12 **13.1.xx.xx ST\_SecondPieSizeUShort (Second Pie Size UnsignedShort)**

13 This simple type specifies that its contents contain a whole number between 5 and 200, whose contents  
14 are a percentage.

15 This simple type's contents are a restriction of the W3C XML Schema unsignedShort datatype.

16 This simple type also specifies the following restrictions:

- 17 • This simple type has a minimum value of greater than or equal to 5.
- 18 • This simple type has a maximum value of less than or equal to 200.

Referenced By
ST_SecondPieSize (Part 1, §21.2.3.41)

19

20 **To Part 4, §A.5.1:**

21  
22  
23  
24  
25  
26  
27  
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```
<xsd:simpleType name="ST_SecondPieSize">  
  <xsd:union memberTypes="ST_SecondPieSizePercent ST_SecondPieSizeUShort"/>  
</xsd:simpleType>  
  
<xsd:simpleType name="ST_SecondPieSizePercent">  
  <xsd:pattern value="0*([5-9]|([1-9][0-9])|(1[0-9][0-9])|200)%"/>  
</xsd:simpleType>  
  
<xsd:simpleType name="ST_SecondPieSizeUShort">  
  <xsd:restriction base="xsd:unsignedShort">  
    <xsd:minInclusive value="5"/>  
    <xsd:maxInclusive value="200"/>  
  </xsd:restriction>  
</xsd:simpleType>  
<xsd:complexType name="CT_SecondPieSize">
```

```

1 <xsd:attribute name="val" type="ST_SecondPieSize" default="75%"/>
2 </xsd:complexType>

```

3  
4 **Part 1, §21.2.2.82 will be updated as follows:**

Attributes	Description
val (Hole Size Value)	<p>Specifies that the contents of this attribute contain a hole size between 10% and 90% of the size of the plot area.</p> <p>The possible values for this attribute are defined by the ST_HoleSize simple type (§xx).</p>

5  
6 **Part 1, §21.2.3.18 will be updated as follows:**

7 This simple type specifies that its contents contain a percentage between 10% and 90%.

8 This simple type is a union of the following types:

- 9 • [ST\\_HoleSizePercent simple type \(§NEW\)](#).
- 10 •

11 **To a new subclause in Part 1, §21.2.3:**

12 **21.2.3.xx ST\_HoleSizePercent (Hole Size Percentage)**

13 This simple type specifies that its contents contain a percentage between 10% and 90%.

14 The simple type’s contents shall match the following regular expression pattern: `0*([1-8][0-9]|90)%`.

Referenced By
ST_HoleSize (§21.2.3.18)

15  
16 **To Part 1, §A.5.1:**

```

17 <xsd:simpleType name="ST_HoleSize">
18   <xsd:union memberTypes="ST_HoleSizePercent"/> </xsd:simpleType>
19
20   <xsd:simpleType name="ST_HoleSizePercent">
21     <xsd:pattern value="0*([1-8][0-9]|90)%"/>
22   </xsd:simpleType>
23   <xsd:complexType name="CT_HoleSize">
24     <xsd:attribute name="val" type="ST_HoleSize" default="10%"/>
25   </xsd:complexType>

```

26  
27  
28 **To a new subclause in Part 4, §13.1.xx (in new Simple Types subclause):**

1 **13.1.xx.xx** *Additional member types for union in ST\_HoleSize (Part 1, §21.2.3.18)*

2 The value space of the following additional member types can be used within the context of this simple  
3 type for a document of a transitional conformance class.

- 4 • The ST\_HoleSizeUByte simple type ([\\$NEW](#)).

5 **To a new subclause in Part 4, §13.1.xx (in new Simple Types subclause):**

6 **13.1.xx.xx** *ST\_HoleSizeUByte (Hole Size UnsignedByte)*

7 This simple type specifies that its contents contain a whole number between 10 and 90, whose contents  
8 are a percentage.

9 This simple type's contents are a restriction of the W3C XML Schema unsignedByte datatype.

10 This simple type also specifies the following restrictions:

- 11 • This simple type has a minimum value of greater than or equal to 10.
- 12 • This simple type has a maximum value of less than or equal to 90.

Referenced By
---------------

ST_HoleSize (Part 1, §21.2.3.18)
----------------------------------

13

14 **To Part 4, §A.5.1:**

```
15 <xsd:simpleType name="ST_HoleSize">
16     <xsd:union memberTypes="ST_HoleSizePercent ST_HoleSizeUByte"/>
17 </xsd:simpleType>
18
19
20 <xsd:simpleType name="ST_HoleSizePercent">
21     <xsd:pattern value="0*([1-8][0-9])|90)% "/>
22 </xsd:simpleType>
23
24 <xsd:simpleType name="ST_HoleSizeUByte">
25     <xsd:restriction base="xsd:unsignedByte">
26         <xsd:minInclusive value="10"/>
27         <xsd:maxInclusive value="90"/>
28     </xsd:restriction>
29 </xsd:simpleType>
30 <xsd:complexType name="CT_HoleSize">
31     <xsd:attribute name="val" type="ST_HoleSize" default="10%"/>
32 </xsd:complexType>
```

33

34 **Part 1, §21.2.2.91 will be updated as follows:**

35

Attributes	Description
val (Label Offset Value)	<p>Specifies the contents of this attribute contain a percentage between 0% and 1000%.</p> <p>The possible values for this attribute are defined by the ST_LblOffset simple type (\$xx).</p>

1

2 **Part 1, §21.2.3.23 will be updated as follows:**

3 This simple type specifies that its contents contain a percentage between 0% and 1000%.

4 This simple type is a union of the following types:

- 5 • ST\_LblOffsetPercent simple type (\$NEW).

6 **To a new subclause in Part 1, §21.2.3:**

7 **21.2.3.xx ST\_LblOffsetPercent (Label Offset Percentage)**

8 This simple type specifies that its contents contain a percentage between 0% and 1000%.

9 The simple type's contents shall match the following regular expression pattern: `0*(([0-9])|([1-9][0-9])|([1-9][0-9][0-9])|1000)%`.

10

Referenced By
ST_LblOffset (§21.2.3.23)

11

12 **To Part 1, §A.5.1:**

13

```

<xsd:simpleType name="ST_LblOffset">
  <xsd:union memberTypes="ST_LblOffsetPercent"/> </xsd:simpleType>

  <xsd:simpleType name="ST_LblOffsetPercent">
    <xsd:pattern value="0*(([0-9])|([1-9][0-9])|([1-9][0-9][0-9])|1000)%"/>
  </xsd:simpleType>
  <xsd:complexType name="CT_LblOffset">
    <xsd:attribute name="val" type="ST_LblOffset" default="100%"/>
  </xsd:complexType>

```

21

22

23 **To a new subclause in Part 4, §13.1.xx (in new Simple Types subclause):**

24 **13.1.xx.xx Additional member types for union in ST\_LblOffset (Part 1, §21.2.3.23)**

25 The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- 26 • The ST\_LblOffsetUShort simple type ([\\$NEW](#)).

27

1 **To a new subclause in Part 4, §13.1.xx (in new Simple Types subclause):**

2 **13.1.xx.xx** *ST\_LblOffsetUShort (Label Offset UnsignedShort)*

3 This simple type specifies that its contents contain a whole number between 0 and 1000, whose  
4 contents are a percentage.

5 This simple type's contents are a restriction of the W3C XML Schema unsignedShort datatype.

6 This simple type also specifies the following restrictions:

- 7 • This simple type has a minimum value of greater than or equal to 0.
- 8 • This simple type has a maximum value of less than or equal to 1000.

Referenced By
---------------

ST_LblOffset (Part 1, §21.2.3.23)
-----------------------------------

9

10 **To Part 4, §A.5.1:**

```
11 <xsd:simpleType name="ST_LblOffset">
12   <xsd:union memberTypes="ST_LblOffsetPercent ST_LblOffsetUShort"/>
13 </xsd:simpleType>
14
15 <xsd:simpleType name="ST_LblOffsetPercent">
16   <xsd:pattern value="0*(([0-9])|([1-9][0-9])|([1-9][0-9][0-9])|1000)%"/>
17 </xsd:simpleType>
18
19 <xsd:simpleType name="ST_LblOffsetUShort">
20   <xsd:restriction base="xsd:unsignedShort">
21     <xsd:minInclusive value="0"/>
22     <xsd:maxInclusive value="1000"/>
23   </xsd:restriction>
24 </xsd:simpleType>
25
26 <xsd:complexType name="CT_LblOffset">
27   <xsd:attribute name="val" type="ST_LblOffset" default="100%"/>
28 </xsd:complexType>
```

30

31 **Part 1, §21.2.2.131 will be updated as follows:**

Attributes	Description
val (Overlap Value)	Specifies the contents of this attribute contain a percentage between -100% and 100%.  The possible values for this attribute are defined by the ST_Overlap simple type (\$xx).

1

2 **Part 1, §21.2.3.31 will be updated as follows:**

3 This simple type specifies that its contents contain a percentage between -100% and 100%.

4 This simple type is a union of the following types:

5 • ST\_OverlapPercent simple type (§NEW).

6 •

Referenced By
overlap@val (§xx)

7

8 **To a new subclause in Part 1, §21.2.3:**

9 **21.2.3.xx ST\_OverlapPercent (Overlap Percentage)**

10 This simple type specifies that its contents contain a percentage between -100% and 100%.

11 The simple type’s contents shall match the following regular expression pattern: (-?0\*([0-9])|([1-9][0-9])|100))%.

12

Referenced By
ST_Overlap (§21.2.3.31)

13

14 **To Part 1, §A.5.1:**

```

15 <xsd:simpleType name="ST_Overlap">
16   <xsd:union memberTypes="ST_OverlapPercent"/>
17 </xsd:simpleType>
18
19 <xsd:simpleType name="ST_OverlapPercent">
20   <xsd:pattern value="(-?0*([0-9])|([1-9][0-9])|100))%"/>
21 </xsd:simpleType>
22
23 <xsd:complexType name="CT_Overlap">
24   <xsd:attribute name="val" type="ST_Overlap" default="0%"/>
25 </xsd:complexType>

```

26

27 **To a new subclause in Part 4, §13.1.xx (in new Simple Types subclause):**

28 **13.1.xx.xx Additional member types for union in ST\_Overlap (Part 1, §21.2.3.31)**

29 The value space of the following additional member types can be used within the context of this simple  
30 type for a document of a transitional conformance class.

- 1 • The ST\_OverlapByte simple type (§NEW).
- 2 **To a new subclause in Part 4, §13.1.xx (in new Simple Types subclause):**
- 3 **13.1.xx.xx ST\_OverlapByte (Overlap Byte)**
- 4 This simple type specifies that its contents contain a whole number between -100 and 100, whose
- 5 contents are a percentage.
- 6 This simple type's contents are a restriction of the W3C XML Schema byte datatype.
- 7 This simple type also specifies the following restrictions:
- 8 • This simple type has a minimum value of greater than or equal to -100.
- 9 • This simple type has a maximum value of less than or equal to 100.

Referenced By
ST_Overlap (Part 1, §21.2.3.31)

10 **To Part 4, §A.5.1:**

```

11 <xsd:simpleType name="ST_Overlap">
12   <xsd:union memberTypes="ST_OverlapPercent ST_OverlapByte"/>
13 </xsd:simpleType>
14
15
16 <xsd:simpleType name="ST_OverlapPercent">
17   <xsd:pattern value="(-?0*(([0-9])|([1-9][0-9])|100))%"/>
18 </xsd:simpleType>
19
20 <xsd:simpleType name="ST_OverlapByte">
21   <xsd:restriction base="xsd:byte">
22     <xsd:minInclusive value="-100"/>
23     <xsd:maxInclusive value="100"/>
24   </xsd:restriction>
25 </xsd:simpleType>
26
27 <xsd:complexType name="CT_Overlap">
28   <xsd:attribute name="val" type="ST_Overlap" default="0%"/>
29 </xsd:complexType>

```

30

31 **Part 1, §21.2.2.21 will be updated as follows:**

32 This element specifies the scale factor for the bubble chart. This element can be a percentage value  
33 from 0% to 300%, corresponding to the default size.

34 ...

35 **Part 1, §21.2.3.5 will be updated as follows:**



1 This simple type specifies that its contents contain a percentage between 0% and 300%.

2 This simple type is a union of the following types:

- 3 • [ST\\_BubbleScalePercent simple type \(\\$NEW\)](#).

4 **To a new subclause in Part 1, §21.2.3:**

5 **21.2.3.xx** *ST\_BubbleScalePercent (Bubble Scale Percentage)*

6 This simple type specifies that its contents contain a percentage between 0% and 300%.

7 The simple type's contents shall match the following regular expression pattern: `0*(([0-9])|([1-9][0-9])|([1-2][0-9][0-9])|300)%`.

Referenced By
ST_BubbleScale (§21.2.3.5)

9

10 **To Part 1, §A.5.1:**

```
11 <xsd:simpleType name="ST_BubbleScale">
12     <xsd:union memberTypes="ST_BubbleScalePercent"/>
13 </xsd:simpleType>
14 <xsd:simpleType name="ST_BubbleScalePercent">
15     <xsd:pattern value="0*(([0-9])|([1-9][0-9])|([1-2][0-9][0-9])|300)%"/>
16 </xsd:simpleType>
17 <xsd:complexType name="CT_BubbleScale">
18     <xsd:attribute name="val" type="ST_BubbleScale" default="100%"/>
19 </xsd:complexType>
```

21

22 **To a new subclause in Part 4, §13.1.xx (in new Simple Types subclause):**

23 **13.1.xx.xx** *Additional member types for union in ST\_BubbleScale (Part 1, §21.2.3.5)*

24 The value space of the following additional member types can be used within the context of this simple  
25 type for a document of a transitional conformance class.

- 26 • The ST\_BubbleScaleUInt simple type ([\\$NEW](#)).

27 **To a new subclause in Part 4, §13.1.xx (in new Simple Types subclause):**

28 **13.1.xx.xx** *ST\_BubbleScaleUInt (Bubble Scale UnsignedInt)*

29 This simple type specifies that its contents contain a whole number between 0 and 300, whose contents  
30 are a percentage.

31 This simple type's contents are a restriction of the W3C XML Schema unsignedInt datatype.

- 1 This simple type also specifies the following restrictions:
- 2 • This simple type has a minimum value of greater than or equal to 0.
  - 3 • This simple type has a maximum value of less than or equal to 300.

Referenced By
ST_BubbleScale (Part 1, §21.2.3.5)

4

5 **To Part 4, §A.5.1:**

```

6 <xsd:simpleType name="ST_BubbleScale">
7   <xsd:union memberTypes="ST_BubbleScalePercent ST_BubbleScaleUInt"/>
8 </xsd:simpleType>
9 <xsd:simpleType name="ST_BubbleScalePercent">
10  <xsd:pattern value="0*(([0-9])|([1-9][0-9])|([1-2][0-9][0-9])|300)%"/>
11 </xsd:simpleType>
12 <xsd:simpleType name="ST_BubbleScaleUInt">
13  <xsd:restriction base="xsd:unsignedInt">
14    <xsd:minInclusive value="0"/>
15    <xsd:maxInclusive value="300"/>
16  </xsd:restriction>
17 </xsd:simpleType>
18 <xsd:complexType name="CT_BubbleScale">
19  <xsd:attribute name="val" type="ST_BubbleScale" default="100%"/>
20 </xsd:complexType>

```

21

22 **Part 1, §21.2.2.206 will be updated as follows:**

Attributes	Description
val (Integer Value)	<p>Specifies that the contents of this attribute contain a percentage.</p> <p>The contents of this number are interpreted based on the context of the parent XML element.</p> <p>The possible values for this attribute are defined by the ST_Thickness simple type (§NEW).</p>

23

24 [Note: The W3C XML Schema definition of this element’s content model (CT\_Thickness) is located in §xx.

25 end note]**To a new subclause in Part 1, §21.2.3:**

26 **21.2.3.xx ST\_Thickness (Thickness Percentage)**

27 This simple type specifies that its contents contain a percentage.

28 This simple type is a union of the following types:

- 1       • [ST\\_ThicknessPercent simple type \(\\$NEW\)](#).

2   **To a new subclause in Part 1, §21.2.3:**

3   **21.2.3.xx***ST\_ThicknessPercent (Thickness Percentage)*

4   This simple type specifies that its contents contain a percentage.

5   The simple type's contents shall match the following regular expression pattern: [\(\[0-9\]+\)%](#).

Referenced By
ST_Thickness (\$NEW)

6

7   **To Part 1, §A.5.1:**

```
8           <xsd:element name="thickness" type="CT_Thickness" minOccurs="0" maxOccurs="1"/>
9
10       <xsd:simpleType name="ST_Thickness">
11           <xsd:union memberTypes="ST_ThicknessPercent"/>
12       </xsd:simpleType>
13
14       <xsd:simpleType name="ST_ThicknessPercent">
15           <xsd:pattern value="([0-9]+)%"/>
16       </xsd:simpleType>
17
18       <xsd:complexType name="CT_Thickness">
19           <xsd:attribute name="val" type="ST_Thickness" use="required"/>
20       </xsd:complexType>
21
```

21

22   **To a new subclause in Part 4, §13.1.xx (in new Simple Types subclause):**

23   **13.1.xx.xx***Additional member types for union in ST\_Thickness (Part 1, §21.2.3.206)*

24   The value space of the following additional member types can be used within the context of this simple  
25   type for a document of a transitional conformance class.

- 26       • The W3C XML Schema unsignedInt datatype.

27   **To Part 4, §A.5.1:**

```
28           <xsd:element name="thickness" type="CT_Thickness" minOccurs="0" maxOccurs="1"/>
29
30       <xsd:simpleType name="ST_Thickness">
31           <xsd:union memberTypes="ST_ThicknessPercent unsignedInt"/>
32       </xsd:simpleType>
33
34       <xsd:simpleType name="ST_ThicknessPercent">
35           <xsd:pattern value="([0-9]+)%"/>
36       </xsd:simpleType>
37
```

37

```
1 <xsd:complexType name="CT_Thickness">
2   <xsd:attribute name="val" type="ST_Thickness" use="required"/>
3 </xsd:complexType>
4
```