

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

Part 1, §21.2.2.41 will be updated as follows:

Attributes	Description
val (Depth Percent Value)	Specifies an integer 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).

Part 1, §21.2.3.9 will be updated as follows:

This simple type specifies that its contents contain a ~~whole number~~[percentage](#) between 20% and 2000%, ~~whose contents are a percentage.~~

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

- [ST_DepthPercentWithSign simple type \(\\$NEW\)](#).

~~This simple type also specifies the following restrictions:~~

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

To a new subclause in Part 1, section 21.2.3:

[21.2.3.xx](#) [ST DepthPercentWithSign \(Depth Percent with Sign\)](#)

[This simple type specifies that its contents contain a percentage between 20% and 2000%.](#)

[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\)%.](#)

Referenced By
ST_DepthPercent (§21.2.3.9)

To Part 1, subclause A.5.1:

```
<xsd:simpleType name="ST_DepthPercent">  
<xsd:restriction base="xsd:unsignedShort">  
<xsd:minInclusive value="20"/>  
<xsd:maxInclusive value="2000"/>
```

```

</xsd:restriction>
  <xsd:union memberTypes="ST_DepthPercentWithSign"/>
</xsd:simpleType>

<xsd:simpleType name="ST_DepthPercentWithSign">
  <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>

```

To a new subclause in Part 4, section 13.1:

13.1.xx Simple Types

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

13.1.xx.xx Additional member types for union in ST_DepthPercent (Part 1, §21.2.3.9)

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.

- [The ST_DepthPercentUShort simple type \(§NEW\).](#)

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

13.1.xx.xx ST_DepthPercentUShort (Depth Percent UnsignedShort)

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

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

This simple type also specifies the following restrictions:

- [This simple type has a minimum value of greater than or equal to 20.](#)
- [This simple type has a maximum value of less than or equal to 2000.](#)

Referenced By

[ST_DepthPercent \(Part 1, §21.2.3.9\)](#)

To Part 4, subclause A.5.1:

```

<xsd:simpleType name="ST_DepthPercent">
<xsd:restriction base="xsd:unsignedShort">
<xsd:minInclusive value="20"/>
<xsd:maxInclusive value="2000"/>
</xsd:restriction>
  <xsd:union memberTypes="ST_DepthPercentWithSign ST_DepthPercentUShort"/>
</xsd:simpleType>

```

```

<xsd:simpleType name="ST_DepthPercentWithSign">
  <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:simpleType name="ST_DepthPercentUShort">
  <xsd:restriction base="xsd:unsignedShort">
    <xsd:minInclusive value="20"/>
    <xsd:maxInclusive value="2000"/>
  </xsd:restriction>
</xsd:simpleType>

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

```

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 (§Error! Reference source not found.).</p>

Part 1, §21.2.3.19 will be updated as follows:

This simple type specifies that its contents contain ~~an integer a percentage~~ between [5%](#) and [500%](#), ~~whose contents are a percentage~~.

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

- [ST_HPercentWithSign simple type \(§NEW\)](#).

~~This simple type also specifies the following restrictions:~~

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

To a new subclause in Part 1, section 21.2.3:

21.2.3.xx *ST HPercentWithSign (Height Percent With Sign)*

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

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)%`.

Referenced By

ST HPercent (§21.2.3.19)

To Part 1, subclause A.5.1:

```
<xsd:simpleType name="ST_HPercent">  
<xsd:restriction base="xsd:unsignedShort">  
<xsd:minInclusive value="5"/>  
<xsd:maxInclusive value="500"/>  
</xsd:restriction>  
  <xsd:union memberTypes="ST_HPercentWithSign"/>  
</xsd:simpleType>  
  
  <xsd:simpleType name="ST_HPercentWithSign">  
    <xsd:pattern value="0*([5-9]|([1-9][0-9])|([1-4][0-9][0-9])|500)%"/>  
  </xsd:simpleType>  
  
  <xsd:complexType name="CT_HPercent">  
    <xsd:attribute name="val" type="ST_HPercent" default="100%"/>  
  </xsd:complexType>
```

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

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

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.

- The ST_HPercentUShort simple type (§NEW).

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

13.1.xx.xx *ST HPercentUShort (Depth Percent UnsignedShort)*

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

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

This simple type also specifies the following restrictions:

- This simple type has a minimum value of greater than or equal to 5.

- [This simple type has a maximum value of less than or equal to 500.](#)

Referenced By

[ST HPercent \(Part 1, §21.2.3.19\)](#)

To Part 4, subclause A.5.1:

```
<xsd:simpleType name="ST_HPercent">
<xsd:restriction base="xsd:unsignedShort">
<xsd:minInclusive value="5"/>
<xsd:maxInclusive value="500"/>
</xsd:restriction>
  <xsd:union memberTypes="ST_HPercentWithSign ST_HPercentUShort"/>
</xsd:simpleType>

<xsd:simpleType name="ST_HPercentWithSign">
  <xsd:pattern value="0*(([5-9])|([1-9][0-9])|([1-4][0-9][0-9])|500)%"/>
</xsd:simpleType>

<xsd:simpleType name="ST_HPercentUShort">
  <xsd:restriction base="xsd:unsignedShort">
    <xsd:minInclusive value="5"/>
    <xsd:maxInclusive value="500"/>
  </xsd:restriction>
</xsd:simpleType>

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

