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# **Information technology — Document description and processing languages — Office Open XML File Formats —**

## **Part 1: Fundamentals and Markup Language Reference** TECHNICAL CORRIGENDUM 2

*Technologies de l'information — Description des documents et langages de traitement — Formats de fichier "Office Open XML" —  
Partie 1: ...*

### **RECTIFICATIF TECHNIQUE 2**

Technical Corrigendum 2 to ISO/IEC 29500-1:2012 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 34, *Document description and processing languages*.

It contains corrections that resolve various Defect Reports submitted against ISO/IEC 29500-1:2012.

A correction can involve changes to one or more clauses or subclauses; it can even apply to multiple Parts of ISO/IEC 29500. For changes to ISO/IEC 29500-1:2012, each such change has its own entry below.

Changes are presented in ascending clause, subclause, and page number order.

This is the second Technical Corrigendum for ISO/IEC 29500-1:2012. No amendments to ISO/IEC 29500-1:2012 have been published.

## ISO/IEC 29500-1:2012/Cor.2:2016(E)

### Notational conventions

The title of each change is the complete reference to the clause or subclause being corrected. In all cases, the title begins with the clause or subclause number, the clause or subclause name, and the page number. In those cases containing changes to a particular row of a table, the value in that row's first column is appended to the title. As the lines in each XML schema subclause are numbered, corrections to schemas also contain the numbers of the lines being corrected.

A change can contain any one or more of the following kinds of edits:

1. Addition of text: New text is displayed in blue and is underlined, as demonstrated here.
2. Deletion of text: ~~Deleted text is displayed in red and is struck through, as demonstrated here.~~
3. Change of format of text: Text whose format (but not its content) has changed is displayed in green and is double-underlined, as demonstrated here.

Many changes involve edits to large paragraphs, tables, and/or XML fragments. In such cases, the changes contain only as much unchanged content as is necessary to establish the correct context of each change. Omitted content is identified via the use of ellipses (...).

Within a change, intent that cannot be represented visually as an edit is written as an instruction in italic and delimited by curly brackets; for example: *{In paragraph 2, item 4, and in paragraph 4, make the numbers in the text "17–23" hyperlinked forward references to Clauses 17 and 23.}*

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## Introduction

This Technical Corrigendum contains corrections that resolve various Defect Reports submitted against ISO/IEC 29500-1:2012.

A correction can involve changes to one or more clause or subclauses; it can even apply to multiple Parts of ISO/IEC 29500. For changes to Part 1, each such change has its own entry below, and the number of the Defect Report that lead to any particular change is written immediately following that change's title, in the form "[DR 99-9999]".

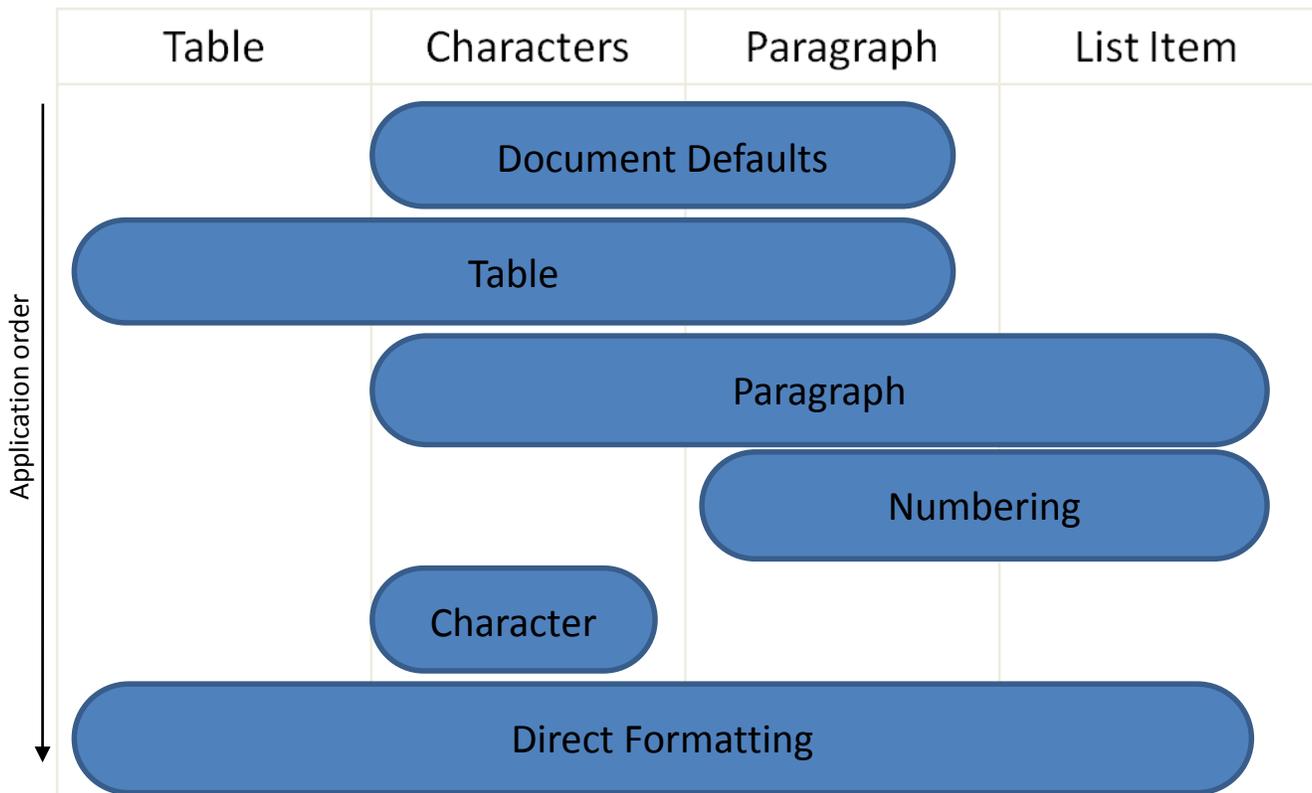
Changes are presented in ascending clause, subclause, and page number order.

## Changes

### 1. §17.7.2, "Style Hierarchy", p. 609

[DR 12-0005, DR 12-00025]

*{Replace the existing diagram with the following one.}*



## 2. §17.18.41, “ST\_Hint (Font Type Hint)”, pp. 1,393–1,394

[DR 09-0040]

This simple type specifies information ~~the font type which shall be~~ used to decide how to format any characters in the current run for which the font type is otherwise ambiguous.

~~There are c~~Certain characters ~~which are not explicitly stored in the document, and~~ can be mapped into multiple more than one of the font slot categories ~~of the four mentioned above~~ described in the parent element. This attribute shall be used to ~~arbitrate that conflict, and~~ determine how ambiguities in this run shall be handled. [Note: This ~~is primarily can be~~ used to handle the formatting on the paragraph mark glyph, and other characters that are not stored as text in the WordprocessingML document. Some printable characters can be mapped to more than one font slot, such as Unicode glyph U+2026 ‘HORIZONTAL ELLIPSIS’. *end note*]

[Example: Consider the run representing the paragraph mark glyph, which is not stored as a physical character. Since this could therefore be formatted with any of the fonts specified for the run, this ambiguity is resolved using the following WordprocessingML:

```
<w:pPr>
  <w:rPr>
    <w:rFonts w:hint="eastAsia" />
  </w:rPr>
</w:pPr>
```

The hint attribute specifies that some characters in the run ~~must use an East Asian~~ the eastAsia font ~~(theme or not, whichever is in use for East Asian text) as applied for this run~~. *end example*]

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

This simple type is restricted to the values listed in the following table:

Enumeration Value	Description
cs (Complex Script Font)	Specifies that the font hint for this text run shall be to use the Complex Script font defined <del>on</del> <u>for</u> the run via the style hierarchy.
default ( <del>High ANSI</del> <u>no Font</u> font hint)	Specifies that <del>the font</del> <u>no</u> hint <u>shall apply for to</u> this text run <del>shall be to use the High ANSI font defined on the run via the style hierarchy</del> .
eastAsia (East Asian Font)	Specifies that the font hint for this text run shall be to use the East Asian font defined <del>on</del> <u>for</u> the run via the style hierarchy.

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

### 3. §18.8.30, “numFmt (Number Format)”, p. 1,769

[DR 14-0006]

*{The corresponding correction in ISO/IEC 29500-1:2012/Cor.1:2015 is incorrect, and is replaced by the following:}*

...

Following is a listing of number formats whose formatCode value is implied rather than explicitly saved in the file. In this case, a numFmtId value is written on the xf record, but no corresponding numFmt element is written. Some of these Ids can be interpreted differently, depending on the UI language of the implementing application.

Ids not specified in the listing, such as 5, 6, 7, and 8, shall follow the number format specified by the formatCode attribute.

[\[Note: To maximize interoperability, implementers should restrict the content of this attribute to enumerations present in the lists below. Additional values may be used, but interoperability will only be possible via mutual agreement between implementers. end note\]](#)

[When values not present in the lists below are used, the behavior is implementation-defined.](#)

#### All Languages

...

### 4. §19.2.1.13, “font (Embedded Font Name)”, pp. 2,523–2,524

[DR 09-0037, DR 09-0055]

Font Substitution Logic:

...

*[Note: Not all characters for a typeface must be stored. It is up to the generating application to determine which characters are to be stored in the corresponding font data files. end note]*

[If ambiguities exist between properties in the markup of a body of text that refers to an embedded font \(such as the latin element specified in §21.1.2.3.7\) and properties in the markup of the corresponding instance of this embedded font element, the determination whether to use that embedded font is application-dependent behavior. If ambiguities exist between properties in the markup of an instance of this embedded font element and properties within the corresponding embedded Font part as specified in §15.2.13, the determination whether to use that embedded font is application-dependent behavior.](#)

Attributes	Description
<u><a href="#">charset (Similar Character</a></u>	<u><a href="#">Specifies the character set that is supported by the parent font. This</a></u>

Attributes	Description																								
Set)	<p><a href="#">information can be used in font substitution logic to locate an appropriate substitute font when this font is not available. This information is determined by querying the font when present and shall not be modified when the font is not available.</a></p> <p><a href="#">The value of this attribute shall be interpreted as follows:</a></p> <table border="1" data-bbox="500 495 1349 1850"> <thead> <tr> <th data-bbox="500 495 654 573">Value</th> <th data-bbox="654 495 1349 573">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="500 573 654 695"><a href="#">0x00</a></td> <td data-bbox="654 573 1349 695"><a href="#">Specifies the ANSI character set. (IANA name iso-8859-1)</a></td> </tr> <tr> <td data-bbox="500 695 654 772"><a href="#">0x01</a></td> <td data-bbox="654 695 1349 772"><a href="#">Specifies the default character set.</a></td> </tr> <tr> <td data-bbox="500 772 654 978"><a href="#">0x02</a></td> <td data-bbox="654 772 1349 978"><a href="#">Specifies the Symbol character set. This value specifies that the characters in the Unicode private use area (U+FF00 to U+FFFF) of the font should be used to display characters in the range U+0000 to U+00FF.</a></td> </tr> <tr> <td data-bbox="500 978 654 1100"><a href="#">0x4D</a></td> <td data-bbox="654 978 1349 1100"><a href="#">Specifies a Macintosh (Standard Roman) character set. (IANA name macintosh)</a></td> </tr> <tr> <td data-bbox="500 1100 654 1178"><a href="#">0x80</a></td> <td data-bbox="654 1100 1349 1178"><a href="#">Specifies the JIS character set. (IANA name shift_jis)</a></td> </tr> <tr> <td data-bbox="500 1178 654 1299"><a href="#">0x81</a></td> <td data-bbox="654 1178 1349 1299"><a href="#">Specifies the Hangul character set. (IANA name ks c 5601-1987)</a></td> </tr> <tr> <td data-bbox="500 1299 654 1421"><a href="#">0x82</a></td> <td data-bbox="654 1299 1349 1421"><a href="#">Specifies a Johab character set. (IANA name KS C-5601-1992)</a></td> </tr> <tr> <td data-bbox="500 1421 654 1499"><a href="#">0x86</a></td> <td data-bbox="654 1421 1349 1499"><a href="#">Specifies the GB-2312 character set. (IANA name GBK)</a></td> </tr> <tr> <td data-bbox="500 1499 654 1621"><a href="#">0x88</a></td> <td data-bbox="654 1499 1349 1621"><a href="#">Specifies the Chinese Big Five character set. (IANA name Big5)</a></td> </tr> <tr> <td data-bbox="500 1621 654 1743"><a href="#">0xA1</a></td> <td data-bbox="654 1621 1349 1743"><a href="#">Specifies a Greek character set. (IANA name windows-1253)</a></td> </tr> <tr> <td data-bbox="500 1743 654 1850"><a href="#">0xA2</a></td> <td data-bbox="654 1743 1349 1850"><a href="#">Specifies a Turkish character set. (IANA name iso-8859-9)</a></td> </tr> </tbody> </table>	Value	Description	<a href="#">0x00</a>	<a href="#">Specifies the ANSI character set. (IANA name iso-8859-1)</a>	<a href="#">0x01</a>	<a href="#">Specifies the default character set.</a>	<a href="#">0x02</a>	<a href="#">Specifies the Symbol character set. This value specifies that the characters in the Unicode private use area (U+FF00 to U+FFFF) of the font should be used to display characters in the range U+0000 to U+00FF.</a>	<a href="#">0x4D</a>	<a href="#">Specifies a Macintosh (Standard Roman) character set. (IANA name macintosh)</a>	<a href="#">0x80</a>	<a href="#">Specifies the JIS character set. (IANA name shift_jis)</a>	<a href="#">0x81</a>	<a href="#">Specifies the Hangul character set. (IANA name ks c 5601-1987)</a>	<a href="#">0x82</a>	<a href="#">Specifies a Johab character set. (IANA name KS C-5601-1992)</a>	<a href="#">0x86</a>	<a href="#">Specifies the GB-2312 character set. (IANA name GBK)</a>	<a href="#">0x88</a>	<a href="#">Specifies the Chinese Big Five character set. (IANA name Big5)</a>	<a href="#">0xA1</a>	<a href="#">Specifies a Greek character set. (IANA name windows-1253)</a>	<a href="#">0xA2</a>	<a href="#">Specifies a Turkish character set. (IANA name iso-8859-9)</a>
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<a href="#">Any other value</a>	<a href="#">Application-defined, can be ignored.</a>																		
<a href="#">panose (Panose Setting)</a>	<p data-bbox="500 1446 1333 1518"><a href="#">Specifies the Panose-1 classification number for the current font using the mechanism defined in §4.2.7.17 of ISO/IEC 14496-22:2007.</a></p> <p data-bbox="500 1551 1295 1623"><a href="#">The possible values for this attribute are defined by the ST_Panose simple type (§22.9.2.8).</a></p>																		
<a href="#">pitchFamily (Similar Font Family)</a>	<p data-bbox="500 1638 1341 1709"><a href="#">Specifies the font pitch as well as the font family for the corresponding font.</a></p> <p data-bbox="500 1743 1338 1877"><a href="#">This information is determined by querying the font when present and shall not be modified when the font is not available. This information can be used in font substitution logic to locate an appropriate substitute font when this font is not available.</a></p>																		

Attributes	Description
	<a href="#">The possible values for this attribute are defined by the ST_PitchFamily simple type (§20.1.10.xx).</a>
typeface (Text Typeface) ...	...

...

## 5. §20.1.10.xx, “ST\_PitchFamily (Pitch Family)”, new subclause, p. xx

[DR 09-0055]

### 20.1.10.xx ST\_PitchFamily (Pitch Family)

This simple type specifies a font pitch.

*[Note: Although the type name is ST\_PitchFamily, the integer value of this attribute specifies the font family with the higher 4 bits and the font pitch with the lower 4 bits. end note]*

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

This simple type is restricted to the values listed in the following table:

<u>Value</u>	<u>Description</u>
<a href="#">0x00</a>	<a href="#">DEFAULT PITCH + UNKNOWN FONT FAMILY</a>
<a href="#">0x01</a>	<a href="#">FIXED PITCH + UNKNOWN FONT FAMILY</a>
<a href="#">0x02</a>	<a href="#">VARIABLE PITCH + UNKNOWN FONT FAMILY</a>
<a href="#">0x10</a>	<a href="#">DEFAULT PITCH + ROMAN FONT FAMILY</a>
<a href="#">0x11</a>	<a href="#">FIXED PITCH + ROMAN FONT FAMILY</a>
<a href="#">0x12</a>	<a href="#">VARIABLE PITCH + ROMAN FONT FAMILY</a>
<a href="#">0x20</a>	<a href="#">DEFAULT PITCH + SWISS FONT FAMILY</a>
<a href="#">0x21</a>	<a href="#">FIXED PITCH + SWISS FONT FAMILY</a>
<a href="#">0x22</a>	<a href="#">VARIABLE PITCH + SWISS FONT FAMILY</a>
<a href="#">0x30</a>	<a href="#">DEFAULT PITCH + MODERN FONT FAMILY</a>
<a href="#">0x31</a>	<a href="#">FIXED PITCH + MODERN FONT FAMILY</a>
<a href="#">0x32</a>	<a href="#">VARIABLE PITCH + MODERN FONT FAMILY</a>
<a href="#">0x40</a>	<a href="#">DEFAULT PITCH + SCRIPT FONT FAMILY</a>
<a href="#">0x41</a>	<a href="#">FIXED PITCH + SCRIPT FONT FAMILY</a>
<a href="#">0x42</a>	<a href="#">VARIABLE PITCH + SCRIPT FONT FAMILY</a>
<a href="#">0x50</a>	<a href="#">DEFAULT PITCH + DECORATIVE FONT FAMILY</a>
<a href="#">0x51</a>	<a href="#">FIXED PITCH + DECORATIVE FONT FAMILY</a>

<u>Value</u>	<u>Description</u>
0x52	VARIABLE PITCH + DECORATIVE FONT FAMILY

[Note: The W3C XML Schema definition of this simple type’s content model (ST\_PitchFamily) is located in §A.3. end note]

6. §21.1.2.3.1, “cs (Complex Script Font)”, attribute pitchFamily, p. 3,220

[DR 09-0055]

Attributes	Description																																						
pitchFamily (Similar Font Family)	<p>Specifies the font pitch as well as the font family for the corresponding font. <del>Because the value of this attribute is determined by an octet value this value shall be interpreted as follows:</del></p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0x00</td> <td>DEFAULT PITCH + UNKNOWN FONT FAMILY</td> </tr> <tr> <td>0x01</td> <td>FIXED PITCH + UNKNOWN FONT FAMILY</td> </tr> <tr> <td>0x02</td> <td>VARIABLE PITCH + UNKNOWN FONT FAMILY</td> </tr> <tr> <td>0x10</td> <td>DEFAULT PITCH + ROMAN FONT FAMILY</td> </tr> <tr> <td>0x11</td> <td>FIXED PITCH + ROMAN FONT FAMILY</td> </tr> <tr> <td>0x12</td> <td>VARIABLE PITCH + ROMAN FONT FAMILY</td> </tr> <tr> <td>0x20</td> <td>DEFAULT PITCH + SWISS FONT FAMILY</td> </tr> <tr> <td>0x21</td> <td>FIXED PITCH + SWISS FONT FAMILY</td> </tr> <tr> <td>0x22</td> <td>VARIABLE PITCH + SWISS FONT FAMILY</td> </tr> <tr> <td>0x30</td> <td>DEFAULT PITCH + MODERN FONT FAMILY</td> </tr> <tr> <td>0x31</td> <td>FIXED PITCH + MODERN FONT FAMILY</td> </tr> <tr> <td>0x32</td> <td>VARIABLE PITCH + MODERN FONT FAMILY</td> </tr> <tr> <td>0x40</td> <td>DEFAULT PITCH + SCRIPT FONT FAMILY</td> </tr> <tr> <td>0x41</td> <td>FIXED PITCH + SCRIPT FONT FAMILY</td> </tr> <tr> <td>0x42</td> <td>VARIABLE PITCH + SCRIPT FONT FAMILY</td> </tr> <tr> <td>0x50</td> <td>DEFAULT PITCH + DECORATIVE FONT FAMILY</td> </tr> <tr> <td>0x51</td> <td>FIXED PITCH + DECORATIVE FONT FAMILY</td> </tr> <tr> <td>0x52</td> <td>VARIABLE PITCH + DECORATIVE FONT FAMILY</td> </tr> </tbody> </table> <p>This information is determined by querying the font when present and shall not be modified when the font is not available. This information can be used in font substitution logic to locate an appropriate substitute font when this font is not available.</p>	Value	Description	0x00	DEFAULT PITCH + UNKNOWN FONT FAMILY	0x01	FIXED PITCH + UNKNOWN FONT FAMILY	0x02	VARIABLE PITCH + UNKNOWN FONT FAMILY	0x10	DEFAULT PITCH + ROMAN FONT FAMILY	0x11	FIXED PITCH + ROMAN FONT FAMILY	0x12	VARIABLE PITCH + ROMAN FONT FAMILY	0x20	DEFAULT PITCH + SWISS FONT FAMILY	0x21	FIXED PITCH + SWISS FONT FAMILY	0x22	VARIABLE PITCH + SWISS FONT FAMILY	0x30	DEFAULT PITCH + MODERN FONT FAMILY	0x31	FIXED PITCH + MODERN FONT FAMILY	0x32	VARIABLE PITCH + MODERN FONT FAMILY	0x40	DEFAULT PITCH + SCRIPT FONT FAMILY	0x41	FIXED PITCH + SCRIPT FONT FAMILY	0x42	VARIABLE PITCH + SCRIPT FONT FAMILY	0x50	DEFAULT PITCH + DECORATIVE FONT FAMILY	0x51	FIXED PITCH + DECORATIVE FONT FAMILY	0x52	VARIABLE PITCH + DECORATIVE FONT FAMILY
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0x52	VARIABLE PITCH + DECORATIVE FONT FAMILY																																						

Attributes	Description
	<p><del>[Note: Although the attribute name is pitchFamily, the integer value of this attribute specifies the font family with higher 4 bits and the font pitch with lower 4 bits. end note]</del></p> <p>The possible values for this attribute are defined by the <a href="#">ST PitchFamily simple type (§20.1.10.xx)</a><del>W3C XML Schema byte datatype</del>.</p>

7. §21.1.2.3.3, “ea (East Asian Font)”, attribute pitchFamily, pp. 3,227–3,228

[DR 09-0055]

Attributes	Description																																						
pitchFamily (Similar Font Family)	<p>Specifies the font pitch as well as the font family for the corresponding font.<del>Because the value of this attribute is determined by a byte variable this value shall be interpreted as follows:</del></p> <table border="1" data-bbox="415 919 1482 1835"> <thead> <tr> <th data-bbox="418 919 610 966">Value</th> <th data-bbox="610 919 1479 966">Description</th> </tr> </thead> <tbody> <tr><td data-bbox="418 966 610 1012">0x00</td><td data-bbox="610 966 1479 1012">DEFAULT PITCH + UNKNOWN FONT FAMILY</td></tr> <tr><td data-bbox="418 1012 610 1058">0x01</td><td data-bbox="610 1012 1479 1058">FIXED PITCH + UNKNOWN FONT FAMILY</td></tr> <tr><td data-bbox="418 1058 610 1104">0x02</td><td data-bbox="610 1058 1479 1104">VARIABLE PITCH + UNKNOWN FONT FAMILY</td></tr> <tr><td data-bbox="418 1104 610 1150">0x10</td><td data-bbox="610 1104 1479 1150">DEFAULT PITCH + ROMAN FONT FAMILY</td></tr> <tr><td data-bbox="418 1150 610 1197">0x11</td><td data-bbox="610 1150 1479 1197">FIXED PITCH + ROMAN FONT FAMILY</td></tr> <tr><td data-bbox="418 1197 610 1243">0x12</td><td data-bbox="610 1197 1479 1243">VARIABLE PITCH + ROMAN FONT FAMILY</td></tr> <tr><td data-bbox="418 1243 610 1289">0x20</td><td data-bbox="610 1243 1479 1289">DEFAULT PITCH + SWISS FONT FAMILY</td></tr> <tr><td data-bbox="418 1289 610 1335">0x21</td><td data-bbox="610 1289 1479 1335">FIXED PITCH + SWISS FONT FAMILY</td></tr> <tr><td data-bbox="418 1335 610 1381">0x22</td><td data-bbox="610 1335 1479 1381">VARIABLE PITCH + SWISS FONT FAMILY</td></tr> <tr><td data-bbox="418 1381 610 1428">0x30</td><td data-bbox="610 1381 1479 1428">DEFAULT PITCH + MODERN FONT FAMILY</td></tr> <tr><td data-bbox="418 1428 610 1474">0x31</td><td data-bbox="610 1428 1479 1474">FIXED PITCH + MODERN FONT FAMILY</td></tr> <tr><td data-bbox="418 1474 610 1520">0x32</td><td data-bbox="610 1474 1479 1520">VARIABLE PITCH + MODERN FONT FAMILY</td></tr> <tr><td data-bbox="418 1520 610 1566">0x40</td><td data-bbox="610 1520 1479 1566">DEFAULT PITCH + SCRIPT FONT FAMILY</td></tr> <tr><td data-bbox="418 1566 610 1612">0x41</td><td data-bbox="610 1566 1479 1612">FIXED PITCH + SCRIPT FONT FAMILY</td></tr> <tr><td data-bbox="418 1612 610 1659">0x42</td><td data-bbox="610 1612 1479 1659">VARIABLE PITCH + SCRIPT FONT FAMILY</td></tr> <tr><td data-bbox="418 1659 610 1705">0x50</td><td data-bbox="610 1659 1479 1705">DEFAULT PITCH + DECORATIVE FONT FAMILY</td></tr> <tr><td data-bbox="418 1705 610 1751">0x51</td><td data-bbox="610 1705 1479 1751">FIXED PITCH + DECORATIVE FONT FAMILY</td></tr> <tr><td data-bbox="418 1751 610 1797">0x52</td><td data-bbox="610 1751 1479 1797">VARIABLE PITCH + DECORATIVE FONT FAMILY</td></tr> </tbody> </table>	Value	Description	0x00	DEFAULT PITCH + UNKNOWN FONT FAMILY	0x01	FIXED PITCH + UNKNOWN FONT FAMILY	0x02	VARIABLE PITCH + UNKNOWN FONT FAMILY	0x10	DEFAULT PITCH + ROMAN FONT FAMILY	0x11	FIXED PITCH + ROMAN FONT FAMILY	0x12	VARIABLE PITCH + ROMAN FONT FAMILY	0x20	DEFAULT PITCH + SWISS FONT FAMILY	0x21	FIXED PITCH + SWISS FONT FAMILY	0x22	VARIABLE PITCH + SWISS FONT FAMILY	0x30	DEFAULT PITCH + MODERN FONT FAMILY	0x31	FIXED PITCH + MODERN FONT FAMILY	0x32	VARIABLE PITCH + MODERN FONT FAMILY	0x40	DEFAULT PITCH + SCRIPT FONT FAMILY	0x41	FIXED PITCH + SCRIPT FONT FAMILY	0x42	VARIABLE PITCH + SCRIPT FONT FAMILY	0x50	DEFAULT PITCH + DECORATIVE FONT FAMILY	0x51	FIXED PITCH + DECORATIVE FONT FAMILY	0x52	VARIABLE PITCH + DECORATIVE FONT FAMILY
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0x00	DEFAULT PITCH + UNKNOWN FONT FAMILY																																						
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0x52	VARIABLE PITCH + DECORATIVE FONT FAMILY																																						

Attributes	Description
	<p>This information is determined by querying the font when present and shall not be modified when the font is not available. This information can be used in font substitution logic to locate an appropriate substitute font when this font is not available.</p> <p>The possible values for this attribute are defined by the <a href="#">ST PitchFamily simple type (§20.1.10.xx)</a><del>W3C XML Schema byte datatype</del>.</p>

**8. §21.1.2.3.7, “latin (Latin Font)”, attribute pitchFamily, pp. 3,234–3,235**

[DR 09-0055]

Attributes	Description																																						
<p>pitchFamily (Similar Font Family)</p>	<p>Specifies the font pitch as well as the font family for the corresponding font. <del>Because the value of this attribute is determined by an octet value this value shall be interpreted as follows:</del></p> <table border="1" data-bbox="415 873 1482 1791"> <thead> <tr> <th data-bbox="418 877 610 919">Value</th> <th data-bbox="610 877 1479 919">Description</th> </tr> </thead> <tbody> <tr><td data-bbox="418 919 610 968">0x00</td><td data-bbox="610 919 1479 968">DEFAULT PITCH + UNKNOWN FONT FAMILY</td></tr> <tr><td data-bbox="418 968 610 1016">0x01</td><td data-bbox="610 968 1479 1016">FIXED PITCH + UNKNOWN FONT FAMILY</td></tr> <tr><td data-bbox="418 1016 610 1064">0x02</td><td data-bbox="610 1016 1479 1064">VARIABLE PITCH + UNKNOWN FONT FAMILY</td></tr> <tr><td data-bbox="418 1064 610 1113">0x10</td><td data-bbox="610 1064 1479 1113">DEFAULT PITCH + ROMAN FONT FAMILY</td></tr> <tr><td data-bbox="418 1113 610 1161">0x11</td><td data-bbox="610 1113 1479 1161">FIXED PITCH + ROMAN FONT FAMILY</td></tr> <tr><td data-bbox="418 1161 610 1209">0x12</td><td data-bbox="610 1161 1479 1209">VARIABLE PITCH + ROMAN FONT FAMILY</td></tr> <tr><td data-bbox="418 1209 610 1257">0x20</td><td data-bbox="610 1209 1479 1257">DEFAULT PITCH + SWISS FONT FAMILY</td></tr> <tr><td data-bbox="418 1257 610 1306">0x21</td><td data-bbox="610 1257 1479 1306">FIXED PITCH + SWISS FONT FAMILY</td></tr> <tr><td data-bbox="418 1306 610 1354">0x22</td><td data-bbox="610 1306 1479 1354">VARIABLE PITCH + SWISS FONT FAMILY</td></tr> <tr><td data-bbox="418 1354 610 1402">0x30</td><td data-bbox="610 1354 1479 1402">DEFAULT PITCH + MODERN FONT FAMILY</td></tr> <tr><td data-bbox="418 1402 610 1451">0x31</td><td data-bbox="610 1402 1479 1451">FIXED PITCH + MODERN FONT FAMILY</td></tr> <tr><td data-bbox="418 1451 610 1499">0x32</td><td data-bbox="610 1451 1479 1499">VARIABLE PITCH + MODERN FONT FAMILY</td></tr> <tr><td data-bbox="418 1499 610 1547">0x40</td><td data-bbox="610 1499 1479 1547">DEFAULT PITCH + SCRIPT FONT FAMILY</td></tr> <tr><td data-bbox="418 1547 610 1596">0x41</td><td data-bbox="610 1547 1479 1596">FIXED PITCH + SCRIPT FONT FAMILY</td></tr> <tr><td data-bbox="418 1596 610 1644">0x42</td><td data-bbox="610 1596 1479 1644">VARIABLE PITCH + SCRIPT FONT FAMILY</td></tr> <tr><td data-bbox="418 1644 610 1692">0x50</td><td data-bbox="610 1644 1479 1692">DEFAULT PITCH + DECORATIVE FONT FAMILY</td></tr> <tr><td data-bbox="418 1692 610 1740">0x51</td><td data-bbox="610 1692 1479 1740">FIXED PITCH + DECORATIVE FONT FAMILY</td></tr> <tr><td data-bbox="418 1740 610 1789">0x52</td><td data-bbox="610 1740 1479 1789">VARIABLE PITCH + DECORATIVE FONT FAMILY</td></tr> </tbody> </table> <p>This information is determined by querying the font when present and shall not be modified when the font is not available. This information can be used in font substitution</p>	Value	Description	0x00	DEFAULT PITCH + UNKNOWN FONT FAMILY	0x01	FIXED PITCH + UNKNOWN FONT FAMILY	0x02	VARIABLE PITCH + UNKNOWN FONT FAMILY	0x10	DEFAULT PITCH + ROMAN FONT FAMILY	0x11	FIXED PITCH + ROMAN FONT FAMILY	0x12	VARIABLE PITCH + ROMAN FONT FAMILY	0x20	DEFAULT PITCH + SWISS FONT FAMILY	0x21	FIXED PITCH + SWISS FONT FAMILY	0x22	VARIABLE PITCH + SWISS FONT FAMILY	0x30	DEFAULT PITCH + MODERN FONT FAMILY	0x31	FIXED PITCH + MODERN FONT FAMILY	0x32	VARIABLE PITCH + MODERN FONT FAMILY	0x40	DEFAULT PITCH + SCRIPT FONT FAMILY	0x41	FIXED PITCH + SCRIPT FONT FAMILY	0x42	VARIABLE PITCH + SCRIPT FONT FAMILY	0x50	DEFAULT PITCH + DECORATIVE FONT FAMILY	0x51	FIXED PITCH + DECORATIVE FONT FAMILY	0x52	VARIABLE PITCH + DECORATIVE FONT FAMILY
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0x00	DEFAULT PITCH + UNKNOWN FONT FAMILY																																						
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0x52	VARIABLE PITCH + DECORATIVE FONT FAMILY																																						

Attributes	Description
	<p>logic to locate an appropriate substitute font when this font is not available.</p> <p><del>[Note: Although the attribute name is pitchFamily, the integer value of this attribute specifies the font family with higher 4 bits and the font pitch with lower 4 bits. end note]</del></p> <p>The possible values for this attribute are defined by the <a href="#">ST PitchFamily simple type (§20.1.10.xx)</a><del>W3C XML Schema byte datatype.</del></p>

9. §21.1.2.3.10, “sym (Symbol Font)”, attribute pitchFamily, pp. 3,242–3,243

[DR 09-0055]

Attributes	Description																																						
pitchFamily (Similar Font Family)	<p>Specifies the font pitch as well as the font family for the corresponding font.<del>Because the value of this attribute is determined by an octet value this value shall be interpreted as follows:</del></p> <table border="1" data-bbox="415 953 1482 1871"> <thead> <tr> <th data-bbox="418 957 610 1003">Value</th> <th data-bbox="610 957 1479 1003">Description</th> </tr> </thead> <tbody> <tr><td data-bbox="418 1003 610 1045">0x00</td><td data-bbox="610 1003 1479 1045">DEFAULT PITCH + UNKNOWN FONT FAMILY</td></tr> <tr><td data-bbox="418 1045 610 1087">0x01</td><td data-bbox="610 1045 1479 1087">FIXED PITCH + UNKNOWN FONT FAMILY</td></tr> <tr><td data-bbox="418 1087 610 1129">0x02</td><td data-bbox="610 1087 1479 1129">VARIABLE PITCH + UNKNOWN FONT FAMILY</td></tr> <tr><td data-bbox="418 1129 610 1171">0x10</td><td data-bbox="610 1129 1479 1171">DEFAULT PITCH + ROMAN FONT FAMILY</td></tr> <tr><td data-bbox="418 1171 610 1213">0x11</td><td data-bbox="610 1171 1479 1213">FIXED PITCH + ROMAN FONT FAMILY</td></tr> <tr><td data-bbox="418 1213 610 1255">0x12</td><td data-bbox="610 1213 1479 1255">VARIABLE PITCH + ROMAN FONT FAMILY</td></tr> <tr><td data-bbox="418 1255 610 1297">0x20</td><td data-bbox="610 1255 1479 1297">DEFAULT PITCH + SWISS FONT FAMILY</td></tr> <tr><td data-bbox="418 1297 610 1339">0x21</td><td data-bbox="610 1297 1479 1339">FIXED PITCH + SWISS FONT FAMILY</td></tr> <tr><td data-bbox="418 1339 610 1381">0x22</td><td data-bbox="610 1339 1479 1381">VARIABLE PITCH + SWISS FONT FAMILY</td></tr> <tr><td data-bbox="418 1381 610 1423">0x30</td><td data-bbox="610 1381 1479 1423">DEFAULT PITCH + MODERN FONT FAMILY</td></tr> <tr><td data-bbox="418 1423 610 1465">0x31</td><td data-bbox="610 1423 1479 1465">FIXED PITCH + MODERN FONT FAMILY</td></tr> <tr><td data-bbox="418 1465 610 1507">0x32</td><td data-bbox="610 1465 1479 1507">VARIABLE PITCH + MODERN FONT FAMILY</td></tr> <tr><td data-bbox="418 1507 610 1549">0x40</td><td data-bbox="610 1507 1479 1549">DEFAULT PITCH + SCRIPT FONT FAMILY</td></tr> <tr><td data-bbox="418 1549 610 1591">0x41</td><td data-bbox="610 1549 1479 1591">FIXED PITCH + SCRIPT FONT FAMILY</td></tr> <tr><td data-bbox="418 1591 610 1633">0x42</td><td data-bbox="610 1591 1479 1633">VARIABLE PITCH + SCRIPT FONT FAMILY</td></tr> <tr><td data-bbox="418 1633 610 1675">0x50</td><td data-bbox="610 1633 1479 1675">DEFAULT PITCH + DECORATIVE FONT FAMILY</td></tr> <tr><td data-bbox="418 1675 610 1717">0x51</td><td data-bbox="610 1675 1479 1717">FIXED PITCH + DECORATIVE FONT FAMILY</td></tr> <tr><td data-bbox="418 1717 610 1759">0x52</td><td data-bbox="610 1717 1479 1759">VARIABLE PITCH + DECORATIVE FONT FAMILY</td></tr> </tbody> </table>	Value	Description	0x00	DEFAULT PITCH + UNKNOWN FONT FAMILY	0x01	FIXED PITCH + UNKNOWN FONT FAMILY	0x02	VARIABLE PITCH + UNKNOWN FONT FAMILY	0x10	DEFAULT PITCH + ROMAN FONT FAMILY	0x11	FIXED PITCH + ROMAN FONT FAMILY	0x12	VARIABLE PITCH + ROMAN FONT FAMILY	0x20	DEFAULT PITCH + SWISS FONT FAMILY	0x21	FIXED PITCH + SWISS FONT FAMILY	0x22	VARIABLE PITCH + SWISS FONT FAMILY	0x30	DEFAULT PITCH + MODERN FONT FAMILY	0x31	FIXED PITCH + MODERN FONT FAMILY	0x32	VARIABLE PITCH + MODERN FONT FAMILY	0x40	DEFAULT PITCH + SCRIPT FONT FAMILY	0x41	FIXED PITCH + SCRIPT FONT FAMILY	0x42	VARIABLE PITCH + SCRIPT FONT FAMILY	0x50	DEFAULT PITCH + DECORATIVE FONT FAMILY	0x51	FIXED PITCH + DECORATIVE FONT FAMILY	0x52	VARIABLE PITCH + DECORATIVE FONT FAMILY
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0x00	DEFAULT PITCH + UNKNOWN FONT FAMILY																																						
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Attributes	Description
	<p>This information is determined by querying the font when present and shall not be modified when the font is not available. This information can be used in font substitution logic to locate an appropriate substitute font when this font is not available.</p> <p><del>[Note: Although the attribute name is pitchFamily, the integer value of this attribute specifies the font family with higher 4 bits and the font pitch with lower 4 bits. end note]</del></p> <p>The possible values for this attribute are defined by the <a href="#">ST PitchFamily simple type (§20.1.10.xx)</a> <del>W3C XML Schema byte datatype.</del></p>

## 10. §21.1.2.4.6, “buFont (Specified)”, attribute pitchFamily, pp. 3,254–3,255

[DR 09-0055]

Attributes	Description																																		
pitchFamily (Similar Font Family)	<p>Specifies the font pitch as well as the font family for the corresponding font. <del>Because the value of this attribute is determined by an octet value this value shall be interpreted as follows:</del></p> <table border="1" data-bbox="414 1060 1482 1875"> <thead> <tr> <th data-bbox="418 1066 609 1108">Value</th> <th data-bbox="609 1066 1477 1108">Description</th> </tr> </thead> <tbody> <tr><td data-bbox="418 1115 609 1157">0x00</td><td data-bbox="609 1115 1477 1157">DEFAULT PITCH + UNKNOWN FONT FAMILY</td></tr> <tr><td data-bbox="418 1163 609 1205">0x01</td><td data-bbox="609 1163 1477 1205">FIXED PITCH + UNKNOWN FONT FAMILY</td></tr> <tr><td data-bbox="418 1211 609 1253">0x02</td><td data-bbox="609 1211 1477 1253">VARIABLE PITCH + UNKNOWN FONT FAMILY</td></tr> <tr><td data-bbox="418 1260 609 1302">0x10</td><td data-bbox="609 1260 1477 1302">DEFAULT PITCH + ROMAN FONT FAMILY</td></tr> <tr><td data-bbox="418 1308 609 1350">0x11</td><td data-bbox="609 1308 1477 1350">FIXED PITCH + ROMAN FONT FAMILY</td></tr> <tr><td data-bbox="418 1356 609 1398">0x12</td><td data-bbox="609 1356 1477 1398">VARIABLE PITCH + ROMAN FONT FAMILY</td></tr> <tr><td data-bbox="418 1404 609 1446">0x20</td><td data-bbox="609 1404 1477 1446">DEFAULT PITCH + SWISS FONT FAMILY</td></tr> <tr><td data-bbox="418 1453 609 1495">0x21</td><td data-bbox="609 1453 1477 1495">FIXED PITCH + SWISS FONT FAMILY</td></tr> <tr><td data-bbox="418 1501 609 1543">0x22</td><td data-bbox="609 1501 1477 1543">VARIABLE PITCH + SWISS FONT FAMILY</td></tr> <tr><td data-bbox="418 1549 609 1591">0x30</td><td data-bbox="609 1549 1477 1591">DEFAULT PITCH + MODERN FONT FAMILY</td></tr> <tr><td data-bbox="418 1598 609 1640">0x31</td><td data-bbox="609 1598 1477 1640">FIXED PITCH + MODERN FONT FAMILY</td></tr> <tr><td data-bbox="418 1646 609 1688">0x32</td><td data-bbox="609 1646 1477 1688">VARIABLE PITCH + MODERN FONT FAMILY</td></tr> <tr><td data-bbox="418 1694 609 1736">0x40</td><td data-bbox="609 1694 1477 1736">DEFAULT PITCH + SCRIPT FONT FAMILY</td></tr> <tr><td data-bbox="418 1743 609 1785">0x41</td><td data-bbox="609 1743 1477 1785">FIXED PITCH + SCRIPT FONT FAMILY</td></tr> <tr><td data-bbox="418 1791 609 1833">0x42</td><td data-bbox="609 1791 1477 1833">VARIABLE PITCH + SCRIPT FONT FAMILY</td></tr> <tr><td data-bbox="418 1839 609 1881">0x50</td><td data-bbox="609 1839 1477 1881">DEFAULT PITCH + DECORATIVE FONT FAMILY</td></tr> </tbody> </table>	Value	Description	0x00	DEFAULT PITCH + UNKNOWN FONT FAMILY	0x01	FIXED PITCH + UNKNOWN FONT FAMILY	0x02	VARIABLE PITCH + UNKNOWN FONT FAMILY	0x10	DEFAULT PITCH + ROMAN FONT FAMILY	0x11	FIXED PITCH + ROMAN FONT FAMILY	0x12	VARIABLE PITCH + ROMAN FONT FAMILY	0x20	DEFAULT PITCH + SWISS FONT FAMILY	0x21	FIXED PITCH + SWISS FONT FAMILY	0x22	VARIABLE PITCH + SWISS FONT FAMILY	0x30	DEFAULT PITCH + MODERN FONT FAMILY	0x31	FIXED PITCH + MODERN FONT FAMILY	0x32	VARIABLE PITCH + MODERN FONT FAMILY	0x40	DEFAULT PITCH + SCRIPT FONT FAMILY	0x41	FIXED PITCH + SCRIPT FONT FAMILY	0x42	VARIABLE PITCH + SCRIPT FONT FAMILY	0x50	DEFAULT PITCH + DECORATIVE FONT FAMILY
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0x50	DEFAULT PITCH + DECORATIVE FONT FAMILY																																		

Attributes	Description	
	0x51	FIXED PITCH + DECORATIVE FONT FAMILY
	0x52	VARIABLE PITCH + DECORATIVE FONT FAMILY
	<p>This information is determined by querying the font when present and shall not be modified when the font is not available. This information can be used in font substitution logic to locate an appropriate substitute font when this font is not available.</p> <p><del>{Note: Although the attribute name is pitchFamily, the integer value of this attribute specifies the font family with higher 4 bits and the font pitch with lower 4 bits. end note}</del></p> <p>The possible values for this attribute are defined by the <a href="#">ST_PitchFamily simple type (§20.1.10.xx)</a> <del>W3C XML Schema byte datatype</del>.</p>	