



UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

United Nations Centre for Trade Facilitation and Electronic
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UN/CEFACT
XML Naming and Design Rules Technical Specification
Version 3.0
Technical Corrigendum 1

10 December 2010

19 Abstract

20 This XML Naming and Design Rules specification defines an architecture and set of
21 rules necessary to define, describe and use XML to consistently express business
22 information exchanges. It is based on the World Wide Web consortium suite of XML
23 specifications and the UN/CEFACT Core Components Technical Specification. This
24 specification will be used by UN/CEFACT to define XML Schema and XML Schema
25 documents which will be published as UN/CEFACT standards. It will also be used by
26 other Standards Development Organizations who are interested in maximizing inter-
27 and intra-industry interoperability.

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49 **1 Status of This Document**

50 This Technical Specification is being developed in accordance with the
51 UN/CEFACT/TRADE/22 Open Development Process Step 8 (Maintenance). The United
52 Nations Centre for Trade Facilitation and Electronic Business (UN/CEFACT) Applied
53 Techniques Group (ATG) has approved it for implementation.

54 This document contains information to guide in the interpretation or implementation.

55 This version: XML Naming and Design Rules, Version 3.0 17 December 2009.

74 **3 Corrections**

75 During the use of XML NDR V3.0 some inconsistencies have been identified. This Technical
76 Corrigenda is an outcome of the ODP 8 Step - Maintenance – and fixes these identified issues
77 in order that they can be unambiguously interpreted and used.

78 The following are corrected:

- 79 • References to *UN/CEFACT Data Type Catalogue Version 3.0* are to be changed to
80 *UN/CEFACT Data Type Catalogue Version 3.0 or later*.
- 81 • Section 5.7.4 XML Schema Built-in Type Extension XML Schema File
- 82 • Rule R 9CDD
- 83 • Appendix J. Date. Type, DateTime. Type and Time. Type Data Type Representations
84 and Their Translation to XML Schema Types

85

86 All changes are indicated using red font underline indicates additional text, ~~cross~~
87 ~~through~~ indicates removed text. The current text sections indicate text that is in the
88 original document. The Corrected section indicates the text that was added or
89 removed. The tables in Appendix J are a complete replacement to reflect the correct
90 regular expressions.

91 **3.1 References to UN/CEFACT Data Type Catalogue Version 3.0**

92 **3.1.1 Section 5.7.4 XML Schema Built-in Type Extension XML Schema** 93 **File**

94 **3.1.1.1 Current**

95 Not all CDTs defined in the *UN/CEFACT Data Type Catalogue Version 3.0* can be
96 expressed in XML using the built-in types from XSD part 2. Some additional type
97 definitions are necessary. The XML Schema Built-in Type Extension (XBT) XML
98 Schema File defines these additional xsd:simpleTypes and xsd:complexTypees. This
99 XML Schema File resides in the data common namespace. It is included by the
100 Reference BDT XML Schema File. It is imported by each data package specific BDT
101 XML Schema File.

102 **3.1.1.2 Corrected**

103 Not all CDTs defined in the *UN/CEFACT Data Type Catalogue Version 3.0* or later
104 can be expressed in XML using the built-in types from XSD part 2. Some additional
105 type definitions are necessary. The XML Schema Built-in Type Extension (XBT) XML
106 Schema File defines these additional xsd:simpleTypes and xsd:complexTypees. This
107 XML Schema File resides in the data common namespace. It is included by the
108 Reference BDT XML Schema File. It is imported by each data package specific BDT
109 XML Schema File.

110 **3.1.2 Rule 9CDD**111 **3.1.2.1 Current**

[R 9CDD]	An XBT XML Schema File MUST be created in the data common namespace to represent the additional types not defined by XML Schema that are needed to implement the BDT equivalents of the CDTs defined in the <i>UN/CEFACT Data Type Catalogue</i> Version 3.0.	1
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112 **3.1.2.2 Corrected**

[R 9CDD]	An XBT XML Schema File MUST be created in the data common namespace to represent the additional types not defined by XML Schema that are needed to implement the BDT equivalents of the CDTs defined in the <i>UN/CEFACT Data Type Catalogue</i> Version 3.0 <u>or later</u> .	1
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113 **3.2 Appendix J Date. Type, DateTime. Type and Time. Type Data**
 114 **Type Representations and Their Translation to XML Schema**
 115 **Types**

116 **3.2.1 Current**

117 See Appendix J in the XML Naming and Design Rules Technical Specification
 118 Version 3.0 dated 17 December 2009.

119 **3.2.2 Corrected**

120 This appendix provides the requirements for specifying the XBT Schema File related
 121 to Date. Type, DateTime. Type and Time. Type representations.

122 The value domain and representation of Date. Type, DateTime. Type and Time.
 123 Type are based on a single `TimePoint` primitive.

124 These types are provided in order to support the ISO 8601 formats. These types
 125 support more of the ISO 8601 formats than are directly supported by the W3C XML
 126 Schema Recommendation. All of the types are expressed in the common XBT XML
 127 Schema File.

128 Each package implementation that defines a BDT XML Schema File will useing the
 129 appropriate ~~XML Schema base~~ type from the common XBT XML Schema File that is
 130 applicable to the BDT using the translation tables Table J-1 for Date. Type, Table J-2
 131 for Time. Type and Table J-3 for DateTime. Type.

132 Table J-1 shows the Date. Type format codes and the full XML data type
 133 implementation based on the Data Type Catalogue Date. Type representations.

134

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
YYYY-MM-DD	true	DateType	xsd:date	<u>[0-9]{4}-(0[13578] 1[02])-(0[1-9] 12 [0-9]3[01])((0-9){4})-((0[469]) (11))-(0[1-9] 12 [0-9]30)</u> <u>[13579][26][02468][048][13579][01345789](0)[48][13579][01345789][2468][048][02468][048][02468][048][02468][048][1235679](0)[48][02468][1235679][2468][048][0-9][0-9][13579][26])-(02)-(0[1-9] 1[0-9] 2[0-9])</u> <u>((13579)[26][02468][1235679][13579][01345789](0)[01235679][13579][01345789][2468][1235679][02468][048][02468][1235679][02468][1235679](0)[01235679][02468][1235679][2468][1235679][0-9][0-9][13579][01345789])-(02)-(0[1-9] 1[0-9] 2[0-8])</u>
YYYY-MM		YearMonthType	xsd:gYearMonth	<u>[0-9]{4}-(0[1-9] 1[012])</u>
YYYY		<u>YearTypeN/A</u>	xsd:gYear	<u>[0-9]{4}</u>
--MM-DD		MonthDayType	xsd:gMonthDay	<u>--(((0[13578]-(0[1-9] 12 [0-9]3[01])) (1[02]-(0[1-9] 12 [0-9]3[01])))((0[469]-(0[1-9] 12 [0-9]30)) (11-(0[1-9] 12 [0-9]30)))(02-(0[1-9] 1[0-9] 2[0-9])))</u>
--MM--		MonthType	xsd:gMonth	<u>--(0[1-9] 1[012])--</u>
---DD		DayType	xsd:gDay	<u>---(0[1-9] 12 [0-9]3[01])</u>
YYYY-DDD		YearDayType	xsd:token	<u>((13579)[26][02468][048][13579][01345789](0)[48][13579][01345789][2468][048][02468][048][02468][048][02468][048][1235679](0)[48][02468][1235679][2468][048][0-9][0-9][13579][26])-((0[1-9] 1[0-9] 2[0-9] 3[0-5] 0-9))((1-2 [0-9] 3[0-5] 36[0-6]))</u> <u>((13579)[26][02468][1235679][13579][01345789](0)[01235679][13579][01345789][2468][1235679][02468][048][02468][1235679][02468][1235679](0)[01235679][02468][1235679][2468][1235679][0-9][0-9][13579][01345789])-((0[1-9] 1[0-9] 2[0-9] 3[0-5] 0-9))((1-2 [0-9] 3[0-5] 36[0-5]))</u>

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
-DDD		DayOfYearType	xsd:token	<u>-((00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3[0-5][0-9]) (36[0-6]))</u>
YYYY-Www-D		YearWeekDayType	xsd:token	<u>[0-9]{4}-W(0[1-9] [1-4][0-9] 5[0123])-[1-7]</u>
-Www-D		WeekDayType	xsd:token	<u>-W(0[1-9] [1-4][0-9] 5[0123])-[1-7]</u>
YYYY-Www		YearWeekType	xsd:token	<u>[0-9]{4}-W(0[1-9] [1-4][0-9] 5[0123])</u>
-Www		WeekType	xsd:token	<u>-W(0[1-9] [1-4][0-9] 5[0123])</u>
-W-D		DayOfWeekType	xsd:token	<u>-W-[1-7]</u>
<u>YY</u>		<u>CenturyType</u>	<u>xsd:token</u>	<u>[0-9]{2}</u>

135 **Table J-1: Date. Type**

136 When more than one format is allowed (e.g. variable precision), the base types will
137 be **unioned** within the given BDT.

138 Variable precision is needed for example in the case of a Birth Date, where the full
139 date may not be know or may not be shared, Example J-1 shows the types that
140 maybe unioned to accomplish this.

141 **Example J-1 XML Schema of a BDT that unions two date XBT.**

```

142 ...
143 <xsd:simpleType name="BirthDateType_192837">
144   <xsd:union memberTypes="xbt:DateType xbt:YearMonthType" />
145   ...
146   <xsd:attribute name="formatCode" type="
147 clm6XXXX1:DateFormatCodeContentType" use="optional">
148   ...
149   </xsd:attribute
150 </xsd:simpleType>
151 ...

```

152 **XML instance of the type using the default base type:**

```

153 <BirthDate>1985-04-12</BirthDate>

```

154 or

155 **XML instance of the type not using the default base type:**

```

156 <BirthDate formatCode="YYYY-MM">1985-04</BirthDate>

```

157 [Note:] – Conventions on time formats:
 158 Second decimals are allowed and optional. All types that include seconds also
 159 include second decimals.
 160 UTC and UTCOffsetZulu time types are only available for all hh:mm:ss format types
 161 that include hours.
 162 [Note:] – No Support for Leap Second:
 163 While ISO 8601 does support Leap Seconds, the W3C XML Schema
 164 Recommendation 1.0 does not support Leap Second. In order to make use of the
 165 applicable XML Schema time types, Leap Seconds are not supported by the XBT
 166 XML Schema.
 167 [Note:] – Representation of Midnight:
 168 Both ISO 8601 and W3C XML Schema Recommendation 1.0 support both 00:00
 169 and 24:00 for midnight, where 00:00 is considered the beginning of the new day and
 170 24:00 is considered the end of the day. The NDR supports both of these
 171 representations. It is important to note that through our testing 00:00 is the more
 172 widely accepted format by tooling.

173 Table J-2 shows the Time. Type format codes and the full XML data type
 174 implementation based on the Data Type Catalogue Time. Type representations.

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
hh:mm:ss	true	TimeType	xsd:time	<u>((([01][0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9] (\.[0-9]+)))(24:00:00))</u>
hh:mm:ssZ		TimeUTCType	xsd:time	<u>((([01][0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9] (\.[0-9]+)))(24:00:00)Z</u>
hh:mm:ss±hh:mm		TimeUTCOffsetType	xsd:time	<u>((([01][0-9] 2[0-3]):[0-5][0-9]:[0-5][0-9] (\.[0-9]+)))(24:00:00)([+ -]([0-1][0-9] 2[0-3]):[0-5][0-9])</u>
hh:mm		HourMinuteType	xsd:token	<u>((([01][0-9] 2[0-3]):[0-5][0-9])(24:00))</u>
hh:mmZ		HourMinuteUTCType	xsd:token	<u>((([01][0-9] 2[0-3]):[0-5][0-9])(24:00)Z</u>
hh:mm±hh:mm		HourMinuteUTCOffsetType	xsd:token	<u>((([01][0-9] 2[0-3]):[0-5][0-9])(24:00)([+ -]([0-1][0-9] 2[0-3]):[0-5][0-9])</u>
hh		HourType	xsd:token	<u>([0-1][0-9] 2[0-4])</u>
hhZ		HourUTCType	xsd:token	<u>([0-1][0-9] 2[0-4])Z</u>
hh±hh:mm		HourUTCOffsetType	xsd:token	<u>([0-1][0-9] 2[0-4])([+ -]([0-1][0-9] 2[0-3]):[0-5][0-9])</u>
-mm:ss		MinuteSecondType	xsd:token	<u>-[0-5][0-9]:[0-5][0-9] (\.[0-9]+)</u>
-mm		MinuteType	xsd:token	<u>-[0-5][0-9]</u>

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
--ss		SecondType	xsd:token	--[0-5][0-9](\.[0-9]+)

175 **Table J-2: Time. Type**

176 [Note:] - Conventions on DateTime formats:

177 Second decimals are allowed and optional. All types that include seconds also
178 include second decimals.179 UTC and UTCOffsetZulu time types are ~~only~~ available for all hh:mm:ss format types
180 that include hours.181 [Note:] – No Support for Leap Second:182 While ISO8601 does support Leap Seconds, the W3C XML Schema
183 Recommendation 1.0 does not support Leap Second. In order to make use of the
184 applicable XML Schema time types, Leap Seconds are not supported by the XBT
185 XML Schema.186 [Note:] – Representation of Midnight:187 Both ISO 8601 and W3C XML Schema Recommendation 1.0 support both 00:00
188 and 24:00 for midnight, where 00:00 is considered the beginning of the new day and
189 24:00 is considered the end of the day. The NDR supports both of these
190 representations. It is important to note that through our testing 00:00 is the more
191 widely accepted format by tooling.192 Table J-3 shows the DateTime. Type format codes and the full XML data type
193 implementation based on the Data Type Catalogue DateTime. Type representations.

194

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
YYYY-MM-DDThh:mm:ss	true	DateTimeType	xsd:dateTime	<p><u>((([0-9]{4})-(0[13578] 1[02])-(0[1-9] 12 [0-9]{3} 01))((([0-9]{4})-(0[469]) (11))-(0[1-9] 12 [0-9]{30}))T(((0[1][0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9](\.\.0-9+))))(24:00:00))</u></p> <p><u>([13579][26][02468][048][13579][01345789](0)[48][13579][01345789][2468][048][02468][048][02468][048][02468][1235679](0)[48][02468][1235679][2468][048][0-9][0-9][13579][26])-(02)-(0[1-9] 1[0-9] 2[0-9])T(((0[1][0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9](\.\.0-9+))))(24:00:00))</u></p> <p><u>([13579][26][02468][048][13579][01345789](0)[48][13579][01345789][2468][048][02468][048][02468][048][02468][1235679](0)[48][02468][1235679][2468][048][0-9][0-9][13579][26])-(02)-(0[1-9] 1[0-9] 2[0-9])T(((0[1][0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9](\.\.0-9+))))(24:00:00))</u></p>
YYYY-MM-DDThh:mm:ssZ		DateTimeUTCType	xsd:dateTime	<p><u>((([0-9]{4})-(0[13578] 1[02])-(0[1-9] 12 [0-9]{3} 01))((([0-9]{4})-(0[469]) (11))-(0[1-9] 12 [0-9]{30}))T(((0[1][0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9](\.\.0-9+))))(24:00:00))Z</u></p> <p><u>([13579][26][02468][048][13579][01345789](0)[48][13579][01345789][2468][048][02468][048][02468][048][02468][1235679](0)[48][02468][1235679][2468][048][0-9][0-9][13579][26])-(02)-(0[1-9] 1[0-9] 2[0-9])T(((0[1][0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9](\.\.0-9+))))(24:00:00))Z</u></p> <p><u>([13579][26][02468][048][13579][01345789](0)[48][13579][01345789][2468][048][02468][048][02468][048][02468][1235679](0)[48][02468][1235679][2468][048][0-9][0-9][13579][26])-(02)-(0[1-9] 1[0-9] 2[0-9])T(((0[1][0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9](\.\.0-9+))))(24:00:00))Z</u></p>

ISO 8601 Format Code	Default Indicator	xdt: Base Type	xsd: Base Type	Pattern restriction
YYYY-MM-DDThh:mm:ss±hh:mm		DateTimeUTCOffsetType	xsd:dateTime	<p>(((0-9){4})-(0[13578] 1[02])-(0[1-9] 12[0-9] 3[01])((0-9){4})-(0[469]) (11))-(0[1-9] 12[0-9] 30))T(((0[1][0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9](\.\.[0-9]+))))(24:00:00)(\+ \- ([0-1][0-9] 2[0-3]):[0-5][0-9])</p> <p>([13579][26][02468][048][13579][01345789](0)[48][13579][01345789][2468][048][02468][048][02468][048][02468][048][1235679](0)[48][02468][1235679][2468][048][0-9][0-9][13579][26])-(02)-(0[1-9] 1[0-9] 2[0-9])T(((0[1][0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9](\.\.[0-9]+))))(24:00:00)(\+ \- ([0-1][0-9] 2[0-3]):[0-5][0-9])</p> <p>([13579][26][02468][1235679][13579][01345789](0)[01235679][13579][01345789][2468][1235679][02468][048][02468][1235679](0)[01235679][02468][1235679][2468][1235679][0-9][0-9][13579][01345789])-(02)-(0[1-9] 1[0-9] 2[0-8])T(((0[1][0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9](\.\.[0-9]+))))(24:00:00)(\+ \- ([0-1][0-9] 2[0-3]):[0-5][0-9])</p>
YYYY-MM-DDThh:mm		DateHourMinuteType	xsd:token	<p>(((0-9){4})-(0[13578] 1[02])-(0[1-9] 12[0-9] 3[01])((0-9){4})-(0[469]) (11))-(0[1-9] 12[0-9] 30))T(((0[1][0-9] 2[0-3]):[0-5][0-9]) (24:00))</p> <p>([13579][26][02468][048][13579][01345789](0)[48][13579][01345789][2468][048][02468][048][02468][048][1235679](0)[48][02468][1235679][2468][048][0-9][0-9][13579][26])-(02)-(0[1-9] 1[0-9] 2[0-9])T(((0[1][0-9] 2[0-3]):[0-5][0-9]) (24:00))</p> <p>([13579][26][02468][1235679][13579][01345789](0)[01235679][13579][01345789][2468][1235679][02468][048][02468][1235679](0)[01235679][02468][1235679][2468][1235679][0-9][0-9][13579][01345789])-(02)-(0[1-9] 1[0-9] 2[0-8])T(((0[1][0-9] 2[0-3]):[0-5][0-9]) (24:00))</p>

ISO 8601 Format Code	Default Indicator	xdt: Base Type	xsd: Base Type	Pattern restriction
<u>YYYY-MM-DDThh:mmZ</u>		<u>DateHourMinuteUTCType</u>	<u>xsd:token</u>	<p><u>((([0-9]{4})-([013578]1[02])-([01-9][12][0-9]3[01]))([0-9]{4})-((0469)(11))-([01-9][12][0-9]30))T(((01[0-9]2[0-3]):[0-5][0-9])(24:00)Z</u></p> <p><u>(([13579]26[02468]048)[13579]01345789(0)48[13579]01345789[2468]048[02468]048[02468]048[02468]1235679(0)48[02468]1235679[2468]048[0-9][0-9][13579]26)-(02)-([01-9]1[0-9]2[0-9])T(((01[0-9]2[0-3]):[0-5][0-9])(24:00)Z</u></p> <p><u>(([13579]26[02468]1235679)[13579]01345789(0)01235679)[13579]01345789[2468]1235679[02468]048[02468]1235679[02468]1235679(0)01235679[02468]1235679[2468]1235679[0-9][0-9][13579]01345789)-(02)-([01-9]1[0-9]1[0-9]2[0-8])T(((01[0-9]2[0-3]):[0-5][0-9])(24:00)Z</u></p>
<u>YYYY-MM-DDThh:mm±hh:m</u> <u>m</u>		<u>DateHourMinuteUTCOffsetType</u>	<u>xsd:token</u>	<p><u>((([0-9]{4})-([013578]1[02])-([01-9][12][0-9]3[01]))([0-9]{4})-((0469)(11))-([01-9][12][0-9]30))T(((01[0-9]2[0-3]):[0-5][0-9])(24:00))(\+ \-)([0-1][0-9]2[0-3]):[0-5][0-9]</u></p> <p><u>(([13579]26[02468]048)[13579]01345789(0)48[13579]01345789[2468]048[02468]048[02468]048[02468]1235679(0)48[02468]1235679[2468]048[0-9][0-9][13579]26)-(02)-([01-9]1[0-9]2[0-9])T(((01[0-9]2[0-3]):[0-5][0-9])(24:00))(\+ \-)([0-1][0-9]2[0-3]):[0-5][0-9]</u></p> <p><u>(([13579]26[02468]1235679)[13579]01345789(0)01235679)[13579]01345789[2468]1235679[02468]048[02468]1235679[02468]1235679(0)01235679[02468]1235679[2468]1235679[0-9][0-9][13579]01345789)-(02)-([01-9]1[0-9]1[0-9]2[0-8])T(((01[0-9]2[0-3]):[0-5][0-9])(24:00))(\+ \-)([0-1][0-9]2[0-3]):[0-5][0-9]</u></p>

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
YYYY-MM-DDThh		DateHourType	xsd:token	<p><u>((([0-9]{4})-(0[13578] 1[02])-(0[1-9] 12 [0-9]{3}[01]))((([0-9]{4})-(0[469]) (11))-(0[1-9] 12 [0-9]{30}))T((([01][0-9]) (2[0-4]))</u></p> <p><u>(((13579 [26][02468][048]) (13579 01345789)(0)[48]) (13579 01345789 2468 [048][02468][048][02468][048][02468][1235679](0)[48] 02468 1235679 2468 [048][0-9][0-9] 13579 [26])-(02)-(0[1-9] 1[0-9] 2[0-9]))T((([01][0-9]) (2[0-4]))</u></p> <p><u>(((13579 [26][02468][1235679]) (13579 01345789)(0)[01235679] 13579 01345789 2468 [1235679][02468][048][02468][1235679][02468][1235679](0)[01235679][02468][1235679] 2468 [1235679][0-9][0-9] 13579 01345789)-(02)-(0[1-9] 1[0-9] 2[0-8]))T((([01][0-9]) (2[0-4]))</u></p>
<u>YYYY-MM-DDThhZ</u>		<u>DateHourUTCType</u>	<u>xsd:token</u>	<p><u>((([0-9]{4})-(0[13578] 1[02])-(0[1-9] 12 [0-9]{3}[01]))((([0-9]{4})-(0[469]) (11))-(0[1-9] 12 [0-9]{30}))T((([01][0-9]) (2[0-4]))Z</u></p> <p><u>(((13579 [26][02468][048]) (13579 01345789)(0)[48]) (13579 01345789 2468 [048][02468][048][02468][048][02468][1235679](0)[48] 02468 1235679 2468 [048][0-9][0-9] 13579 [26])-(02)-(0[1-9] 1[0-9] 2[0-9]))T((([01][0-9]) (2[0-4]))Z</u></p> <p><u>(((13579 [26][02468][1235679]) (13579 01345789)(0)[01235679] 13579 01345789 2468 [1235679][02468][048][02468][1235679][02468][1235679](0)[01235679][02468][1235679] 2468 [1235679][0-9][0-9] 13579 01345789)-(02)-(0[1-9] 1[0-9] 2[0-8]))T((([01][0-9]) (2[0-4]))Z</u></p>

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
<u>YYYY-MM-DDThh±hh:mm</u>		<u>DateHourUTCOffsetType</u>	xsd:token	<p>((([0-9]{4})-(0[13578] 1[02])-(0[1-9] 12 [0-9]{3} 01))((([0-9]{4})-(0[469]) (11))-(0[1-9] 12 [0-9]{30}))T((([01][0-9]) (2[0-4]))(\\+ \\- ([0-1][0-9] 2[0-3]):[0-5][0-9]))</p> <p>((([13579][26][02468][048][13579][01345789](0)[48][13579][01345789][2468][048][02468][048][02468][048][02468][1235679](0)[48][02468][1235679][2468][048][0-9][0-9][13579][26])-(02)-(0[1-9] 1[0-9] 2[0-9]))T((([01][0-9]) (2[0-4]))(\\+ \\- ([0-1][0-9] 2[0-3]):[0-5][0-9]))</p> <p>((([13579][26][02468][1235679][13579][01345789](0)[01235679][13579][01345789][2468][1235679][02468][048][02468][1235679][02468][1235679](0)[01235679][02468][1235679][2468][1235679][0-9][0-9][13579][01345789])-(02)-(0[1-9] 1[0-9] 2[0-8]))T((([01][0-9]) (2[0-4]))(\\+ \\- ([0-1][0-9] 2[0-3]):[0-5][0-9]))</p>
--MM-DDThh:mm:ss		MonthDayTimeType	xsd:token	--(((0[13578])-(0[1-9] 12 [0-9]{3} 01)))(1[02]-(0[1-9] 12 [0-9]{3} 01))((0[469]-(0[1-9] 12 [0-9]{30})) (11-(0[1-9] 12 [0-9]{30})) (02-(0[1-9] 1[0-9] 2[0-9]))T(((01][0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9](\\+ 0-9+))))(24:00:00))
--MM-DDThh:mm:ssZ		MonthDayTimeUTCType	xsd:token	--(((0[13578])-(0[1-9] 12 [0-9]{3} 01)))(1[02]-(0[1-9] 12 [0-9]{3} 01))((0[469]-(0[1-9] 12 [0-9]{30})) (11-(0[1-9] 12 [0-9]{30})) (02-(0[1-9] 1[0-9] 2[0-9]))T(((01][0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9](\\+ 0-9+))))(24:00:00))Z
--MM-DDThh:mm:ss±hh:mm		MonthDayTimeUTCOffsetType	xsd:token	--(((0[13578])-(0[1-9] 12 [0-9]{3} 01)))(1[02]-(0[1-9] 12 [0-9]{3} 01))((0[469]-(0[1-9] 12 [0-9]{30})) (11-(0[1-9] 12 [0-9]{30})) (02-(0[1-9] 1[0-9] 2[0-9]))T(((01][0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9](\\+ 0-9+))))(24:00:00))(\\+ \\- ([0-1][0-9] 2[0-3]):[0-5][0-9]))

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
--MM-DDThh:mm		MonthDayHourMinuteType	xsd:token	--(((0[13578]-(0[1-9] 12 [0-9]3[01])) (1[02]-(0[1-9] 12 [0-9]3[01])) ((0[469]-(0[1-9] 12 [0-9]3[01])) (11-(0[1-9] 12 [0-9]3[01])) (02-(0[1-9] 1[0-9] 2[0-9] 3[01]))T(((01 [0-9]2[0-3]):[0-5][0-9])) (24:00)))
--MM-DDThh:mmZ		<u>MonthDayHourMinuteUTCType</u>	<u>xsd:token</u>	--(((0[13578]-(0[1-9] 12 [0-9]3[01])) (1[02]-(0[1-9] 12 [0-9]3[01])) ((0[469]-(0[1-9] 12 [0-9]3[01])) (11-(0[1-9] 12 [0-9]3[01])) (02-(0[1-9] 1[0-9] 2[0-9] 3[01]))T(((01 [0-9]2[0-3]):[0-5][0-9])) (24:00)))Z
--MM-DDThh:mm±hh:mm		<u>MonthDayHourMinuteUTCOffsetType</u>	<u>xsd:token</u>	--(((0[13578]-(0[1-9] 12 [0-9]3[01])) (1[02]-(0[1-9] 12 [0-9]3[01])) ((0[469]-(0[1-9] 12 [0-9]3[01])) (11-(0[1-9] 12 [0-9]3[01])) (02-(0[1-9] 1[0-9] 2[0-9] 3[01]))T(((01 [0-9]2[0-3]):[0-5][0-9])) (24:00))(\+ \-)([0-1][0-9] 2[0-3]):[0-5][0-9])
--MM-DDThh		MonthDayHourType	xsd:token	--(((0[13578]-(0[1-9] 12 [0-9]3[01])) (1[02]-(0[1-9] 12 [0-9]3[01])) ((0[469]-(0[1-9] 12 [0-9]3[01])) (11-(0[1-9] 12 [0-9]3[01])) (02-(0[1-9] 1[0-9] 2[0-9] 3[01]))T([0-1][0-9] 2[0-4])
--MM-DDThhZ		<u>MonthDayHourUTCType</u>	<u>xsd:token</u>	--(((0[13578]-(0[1-9] 12 [0-9]3[01])) (1[02]-(0[1-9] 12 [0-9]3[01])) ((0[469]-(0[1-9] 12 [0-9]3[01])) (11-(0[1-9] 12 [0-9]3[01])) (02-(0[1-9] 1[0-9] 2[0-9] 3[01]))T([0-1][0-9] 2[0-4])Z
--MM-DDThh±hh:mm		<u>MonthDayHourUTCOffsetType</u>	<u>xsd:token</u>	--(((0[13578]-(0[1-9] 12 [0-9]3[01])) (1[02]-(0[1-9] 12 [0-9]3[01])) ((0[469]-(0[1-9] 12 [0-9]3[01])) (11-(0[1-9] 12 [0-9]3[01])) (02-(0[1-9] 1[0-9] 2[0-9] 3[01]))T([0-1][0-9] 2[0-4])\+ \-)([0-1][0-9] 2[0-3]):[0-5][0-9])
---DDThh:mm:ss		DayTimeType	xsd:token	---(0[1-9] 12 [0-9]3[01])T(((01 [0-9]2[0-3]):[0-5][0-9]:([0-5][0-9] \+ \-)([0-9] 24:00:00)))
---DDThh:mm:ssZ		DayTimeUTCType	xsd:token	---(0[1-9] 12 [0-9]3[01])T(((01 [0-9]2[0-3]):[0-5][0-9]:([0-5][0-9] \+ \-)([0-9] 24:00:00)))Z

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
--- DDThh:mm:ss±hh :mm		DayTimeUTCOffset Type	xsd:token	---(0[1-9][12][0-9][301])T(((01[0-9][20-3]):[0-5][0-9]:(0[5][0-9](\.[0-9]+)))(24:00:00))(\+ \- ([0-1][0-9][20-3]):[0-5][0-9])
--DDThh:mm		DayHourMinuteType	xsd:token	---(0[1-9][12][0-9][301])T(((01[0-9][20-3]):[0-5][0-9])(24:00))
---DDThh:mmZ		DayHourMinuteUTCType	xsd:token	---(0[1-9][12][0-9][301])T(((01[0-9][20-3]):[0-5][0-9])(24:00))Z
--- DDThh:mm±hh:m m		DayHourMinuteUTCOffsetType	xsd:token	---(0[1-9][12][0-9][301])T(((01[0-9][20-3]):[0-5][0-9])(24:00))(\+ \- ([0-1][0-9][20-3]):[0-5][0-9])
---DDThh		DayHourType	xsd:token	---(0[1-9][12][0-9][301])T([0-1][0-9][20-4])
---DDThhZ		DayHourUTCType	xsd:token	---(0[1-9][12][0-9][301])T([0-1][0-9][20-4])Z
---DDThh±hh:mm		DayHourUTCOffsetType	xsd:token	---(0[1-9][12][0-9][301])T([0-1][0-9][20-4])\+ \- ([0-1][0-9][20-3]):[0-5][0-9]
YYYY- DDThh:mm:ss		YearDayTimeType	xsd:token	([13579][26][02468][048][13579][01345789](0)[48][13579][01345789][2468][048][02468][048][02468][048][1235679](0)[48][02468][1235679][2468][048][0-9][0-9][13579][26])-(00[1-9])(0[1-9][0-9])([1-2][0-9][0-9])(3[0-5][0-9])(36[0-6])T(((01[0-9][20-3]):[0-5][0-9]:([0-5][0-9](\.[0-9]+)))(24:00:00)) ([13579][26][02468][1235679][13579][01345789](0)[01235679][13579][01345789][2468][1235679][02468][048][02468][1235679][02468][1235679](0)[01235679][02468][1235679][2468][1235679][0-9][0-9][13579][01345789])-(00[1-9])(0[1-9][0-9])([1-2][0-9][0-9])(3[0-5][0-9])(36[0-5])T(((01[0-9][20-3]):[0-5][0-9]:([0-5][0-9](\.[0-9]+)))(24:00:00))

ISO 8601 Format Code	Default Indicator	xdt: Base Type	xsd: Base Type	Pattern restriction
YYYY- DDThh:mm:ss _Z		YearDayTimeUTCType	xsd:token	<p>([13579][26][02468][048][13579][01345789](0)[48][13579][01345789][2468][048][02468][048][02468][048][1235679](0)[48][02468][1235679][2468][048][0-9][0-9][13579][26]-((00[1-9])(0[1-9][0-9])((1-2)[0-9][0-9])(3[0-5][0-9])(36[0-6]))T(((01[0-9]2[0-3]):[0-5][0-9]:([0-5][0-9](\.[0-9]+))))(24:00:00))Z</p> <p>([13579][26][02468][1235679][13579][01345789](0)[01235679][13579][01345789][2468][1235679][02468][048][02468][1235679][02468][1235679](0)[01235679][02468][1235679][2468][1235679][0-9][0-9][13579][01345789]-((00[1-9])(0[1-9][0-9])((1-2)[0-9][0-9])(3[0-5][0-9])(36[0-6]))T(((01[0-9]2[0-3]):[0-5][0-9]:([0-5][0-9](\.[0-9]+))))(24:00:00))Z</p>
YYYY- DDThh:mm:ss _{±hh:mm}		YearDayTimeUTCOffsetType	xsd:token	<p>([13579][26][02468][048][13579][01345789](0)[48][13579][01345789][2468][048][02468][048][02468][048][1235679](0)[48][02468][1235679][2468][048][0-9][0-9][13579][26]-((00[1-9])(0[1-9][0-9])((1-2)[0-9][0-9])(3[0-5][0-9])(36[0-6]))T(((01[0-9]2[0-3]):[0-5][0-9]:([0-5][0-9](\.[0-9]+))))(24:00:00))(\+ \- ([0-1][0-9]2[0-3]):[0-5][0-9])</p> <p>([13579][26][02468][1235679][13579][01345789](0)[01235679][13579][01345789][2468][1235679][02468][048][02468][1235679][02468][1235679](0)[01235679][02468][1235679][2468][1235679][0-9][0-9][13579][01345789]-((00[1-9])(0[1-9][0-9])((1-2)[0-9][0-9])(3[0-5][0-9])(36[0-6]))T(((01[0-9]2[0-3]):[0-5][0-9]:([0-5][0-9](\.[0-9]+))))(24:00:00))(\+ \- ([0-1][0-9]2[0-3]):[0-5][0-9])</p>

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
YYYY- DDThh:mm		YearDayHourMinut eType	xsd:token	<p>([13579][26][02468][048][13579][01345789](0)[48][13579][01345789][2468][048][02468][048][02468][048][02468][1235679](0)[48][02468][1235679][2468][048][0-9][0-9][13579][26]-((00[1-9])(0[1-9][0-9])([1-2][0-9][0-9])(3[0-5][0-9])(36[0-6]))T(((01[0-9][2[0-3]):[0-5][0-9])(24:00))</p> <p>([13579][26][02468][1235679][13579][01345789](0)[01235679][13579][01345789][2468][1235679][02468][048][02468][1235679][02468][1235679](0)[01235679][02468][1235679][2468][1235679][0-9][0-9][13579][01345789]-((00[1-9])(0[1-9][0-9])([1-2][0-9][0-9])(3[0-5][0-9])(36[0-5]))T(((01[0-9][2[0-3]):[0-5][0-9])(24:00))</p>
YYYY- DDThh:mmZ		YearDayHourMinut eUTCType	xsd:token	<p>([13579][26][02468][048][13579][01345789](0)[48][13579][01345789][2468][048][02468][048][02468][048][02468][1235679](0)[48][02468][1235679][2468][048][0-9][0-9][13579][26]-((00[1-9])(0[1-9][0-9])([1-2][0-9][0-9])(3[0-5][0-9])(36[0-6]))T(((01[0-9][2[0-3]):[0-5][0-9])(24:00))Z</p> <p>([13579][26][02468][1235679][13579][01345789](0)[01235679][13579][01345789][2468][1235679][02468][048][02468][1235679][02468][1235679](0)[01235679][02468][1235679][2468][1235679][0-9][0-9][13579][01345789]-((00[1-9])(0[1-9][0-9])([1-2][0-9][0-9])(3[0-5][0-9])(36[0-5]))T(((01[0-9][2[0-3]):[0-5][0-9])(24:00))Z</p>

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
<u>YYYY-</u> <u>DDDT</u> hh:mm±hh: <u>mm</u>		<u>YearDayHourMinut</u> <u>eUTCOffsetType</u>	<u>xsd:token</u>	<p><u>([13579][26][02468][048][13579][01345789](0)[48][13579][01345789][2468][048][02468][048][02468][048][02468][1235679](0)[48][02468][1235679][2468][048][09][09][13579][26]-((00[1-9])(0[1-9][0-9])((1-2)[0-9][0-9])(3[0-5][0-9])(36[0-6]))T(((01[0-9]2[0-3]):[0-5][0-9])(24:00))(\+ \-)([0-1][0-9]2[0-3]):[0-5][0-9])</u></p> <p><u>([13579][26][02468][1235679][13579][01345789](0)[01235679][13579][01345789][2468][1235679][02468][048][02468][1235679][02468][1235679](0)[01235679][02468][1235679][2468][1235679][09][09][13579][01345789]-((00[1-9])(0[1-9][0-9])((1-2)[0-9][0-9])(3[0-5][0-9])(36[0-6]))T(((01[0-9]2[0-3]):[0-5][0-9])(24:00))(\+ \-)([0-1][0-9]2[0-3]):[0-5][0-9])</u></p>
YYYY-DDDThh		YearDayHourType	xsd:token	<p><u>([13579][26][02468][048][13579][01345789](0)[48][13579][01345789][2468][048][02468][048][02468][048][02468][1235679](0)[48][02468][1235679][2468][048][09][09][13579][26]-((00[1-9])(0[1-9][0-9])((1-2)[0-9][0-9])(3[0-5][0-9])(36[0-6]))T([0-1][0-9]2[0-4])</u></p> <p><u>([13579][26][02468][1235679][13579][01345789](0)[01235679][13579][01345789][2468][1235679][02468][048][02468][1235679][02468][1235679](0)[01235679][02468][1235679][2468][1235679][09][09][13579][01345789]-((00[1-9])(0[1-9][0-9])((1-2)[0-9][0-9])(3[0-5][0-9])(36[0-6]))T([0-1][0-9]2[0-4])</u></p>

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
<u>YYYY-DDDThhZ</u>		<u>YearDayHourUTCType</u>	xsd:token	<u>((13579 26 02468 048 13579 01345789)(0 48 13579 01345789 2468 048 02468 048 02468 048 02468 1235679)(0 48 02468 1235679 2468 048 09 09 13579 26)-((001-9) (01-9 0-9) (1-2 0-9 0-9) (3 0-5 0-9) (36 0-6))T(0-1 0-9 2 0-4)Z</u> <u>((13579 26 02468 1235679 13579 01345789)(0 01235679 13579 01345789 2468 1235679 02468 048 02468 1235679 02468 1235679)(0 01235679 02468 1235679 2468 1235679 09 09 13579 01345789)-((001-9) (01-9 0-9) (1-2 0-9 0-9) (3 0-5 0-9) (36 0-5))T(0-1 0-9 2 0-4)Z</u>
<u>YYYY-DDDThh±hh:mm</u>		<u>YearDayHourUTCOffsetType</u>	xsd:token	<u>((13579 26 02468 048 13579 01345789)(0 48 13579 01345789 2468 048 02468 048 02468 048 02468 1235679)(0 48 02468 1235679 2468 048 09 09 13579 26)-((001-9) (01-9 0-9) (1-2 0-9 0-9) (3 0-5 0-9) (36 0-6))T(0-1 0-9 2 0-4)(\+ \- (0-1 0-9 2 0-3):[0-5 0-9])</u> <u>((13579 26 02468 1235679 13579 01345789)(0 01235679 13579 01345789 2468 1235679 02468 048 02468 1235679)(0 01235679 02468 1235679 2468 1235679 09 09 13579 01345789)-((001-9) (01-9 0-9) (1-2 0-9 0-9) (3 0-5 0-9) (36 0-5))T(0-1 0-9 2 0-4)(\+ \- (0-1 0-9 2 0-3):[0-5 0-9])</u>
-DDThh:mm:ss		DayOfYearTimeType	xsd:token	<u>-((001-9) (01-9 0-9) (1-2 0-9 0-9) (3 0-5 0-9) (36 0-6))T(((01 0-9 2 0-3):[0-5 0-9]:([0-5 0-9](\+ \- 0-9+))))(24:00:00)</u>
-DDThh:mm:ssZ		DayOfYearTimeUTCType	xsd:token	<u>-((001-9) (01-9 0-9) (1-2 0-9 0-9) (3 0-5 0-9) (36 0-6))T(((01 0-9 2 0-3):[0-5 0-9]:([0-5 0-9](\+ \- 0-9+))))(24:00:00)Z</u>

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
- DDDTThh:mm:ss <u>±</u> <u>h:mm</u>		DayOfYearTime <u>UT</u> <u>COffset</u> Type	xsd:token	<u>-((00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3[0-5][0-9]) (36[0-6]))T((([01][0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9](\.\.[0-9]+)))) (24:00:00)(\+ \- ([0-1][0-9] 2[0-3]):[0-5][0-9])</u>
-DDDTThh:mm		DayOfYearHourMinuteType	xsd:token	<u>-((00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3[0-5][0-9]) (36[0-6]))T((([01][0-9] 2[0-3]):[0-5][0-9]) (24:00))</u>
<u>-DDDTThh:mmZ</u>		<u>DayOfYearHourMinuteUT</u> Type	<u>xsd:token</u>	<u>-((00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3[0-5][0-9]) (36[0-6]))T((([01][0-9] 2[0-3]):[0-5][0-9]) (24:00))Z</u>
- DDDTThh:mm <u>±</u> <u>hh:</u> <u>mm</u>		<u>DayOfYearHourMinuteUT</u> <u>COffset</u> Type	<u>xsd:token</u>	<u>-((00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3[0-5][0-9]) (36[0-6]))T((([01][0-9] 2[0-3]):[0-5][0-9]) (24:00)(\+ \- ([0-1][0-9] 2[0-3]):[0-5][0-9])</u>
-DDDTThh		DayOfYearHourType	xsd:token	<u>-((00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3[0-5][0-9]) (36[0-6]))T([0-1][0-9] 2[0-4])</u>
<u>-DDDTThhZ</u>		<u>DayOfYearHourUT</u> Type	<u>xsd:token</u>	<u>-((00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3[0-5][0-9]) (36[0-6]))T([0-1][0-9] 2[0-4])Z</u>
<u>-DDDTThh±hh:mm</u>		<u>DayOfYearHourUT</u> <u>COffset</u> Type	<u>xsd:token</u>	<u>-((00[1-9]) (0[1-9][0-9]) ([1-2][0-9][0-9]) (3[0-5][0-9]) (36[0-6]))T([0-1][0-9] 2[0-4])(\+ \- ([0-1][0-9] 2[0-3]):[0-5][0-9])</u>
YYYY-Www-DThh:mm:ss		YearWeekDayTimeType	xsd:token	<u>[0-9]{4}-W(0[1-9] 1-4)[0-9][5][0123])-1-7T(((01[0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9](\.\.[0-9]+)))) (24:00:00))</u>
YYYY-Www-DThh:mm:ss <u>Z</u>		YearWeekDayTimeUTType	xsd:token	<u>[0-9]{4}-W(0[1-9] 1-4)[0-9][5][0123])-1-7T(((01[0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9](\.\.[0-9]+)))) (24:00:00))Z</u>
YYYY-Www-DThh:mm:ss <u>±</u> <u>hh:</u> <u>mm</u>		YearWeekDayTime <u>UT</u> <u>COffset</u> Type	xsd:token	<u>[0-9]{4}-W(0[1-9] 1-4)[0-9][5][0123])-1-7T(((01[0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9](\.\.[0-9]+)))) (24:00:00)(\+ \- ([0-1][0-9] 2[0-3]):[0-5][0-9])</u>
YYYY-Www-DThh:mm		YearWeekDayHourMinuteType	xsd:token	<u>[0-9]{4}-W(0[1-9] 1-4)[0-9][5][0123])-1-7T(((01[0-9] 2[0-3]):[0-5][0-9]) (24:00))</u>

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
<u>YYYY-Www-DThh:mmZ</u>		<u>YearWeekDayHourMinuteUTCType</u>	<u>xsd:token</u>	<u>[0-9]{4}-W(0[1-9] 1-4)[0-9][5[0123])-1-7]T(((01)[0-9] 2[0-3]):[0-5][0-9]) (24:00))Z</u>
<u>YYYY-Www-DThh:mm±hh:mm</u>		<u>YearWeekDayHourMinuteUTCOffsetType</u>	<u>xsd:token</u>	<u>[0-9]{4}-W(0[1-9] 1-4)[0-9][5[0123])-1-7]T(((01)[0-9] 2[0-3]):[0-5][0-9]) (24:00))(\+ \-)((0-1)[0-9] 2[0-3]):[0-5][0-9]</u>
YYYY-Www-DThh		YearWeekDayHourType	xsd:token	<u>[0-9]{4}-W(0[1-9] 1-4)[0-9][5[0123])-1-7]T((0-1)[0-9] 2[0-4])</u>
<u>YYYY-Www-DThhZ</u>		<u>YearWeekDayHourUTCType</u>	<u>xsd:token</u>	<u>[0-9]{4}-W(0[1-9] 1-4)[0-9][5[0123])-1-7]T((0-1)[0-9] 2[0-4])Z</u>
<u>YYYY-Www-DThh±hh:mm</u>		<u>YearWeekDayHourUTCOffsetType</u>	<u>xsd:token</u>	<u>[0-9]{4}-W(0[1-9] 1-4)[0-9][5[0123])-1-7]T((0-1)[0-9] 2[0-4])\+ \-((0-1)[0-9] 2[0-3]):[0-5][0-9]</u>
-Www-DThh:mm:ss		WeekDayTimeType	xsd:token	<u>-W(0[1-9] 1-4)[0-9][5[0123])-1-7]T(((01)[0-9] 2[0-3]):[0-5][0-9]:((0-5)[0-9]((\.[0-9]+)))) (24:00:00))</u>
-Www-DThh:mm:ssZ		WeekDayTimeUTCType	xsd:token	<u>-W(0[1-9] 1-4)[0-9][5[0123])-1-7]T(((01)[0-9] 2[0-3]):[0-5][0-9]:((0-5)[0-9]((\.[0-9]+)))) (24:00:00))Z</u>
-Www-DThh:mm:ss±hh:mm		WeekDayTimeUTCOffsetType	xsd:token	<u>-W(0[1-9] 1-4)[0-9][5[0123])-1-7]T(((01)[0-9] 2[0-3]):[0-5][0-9]:((0-5)[0-9]((\.[0-9]+)))) (24:00:00))(\+ \-)((0-1)[0-9] 2[0-3]):[0-5][0-9]</u>
-Www-DThh:mm		WeekDayHourMinuteType	xsd:token	<u>-W(0[1-9] 1-4)[0-9][5[0123])-1-7]T(((01)[0-9] 2[0-3]):[0-5][0-9]) (24:00))</u>
<u>-Www-DThh:mmZ</u>		<u>WeekDayHourMinuteUTCType</u>	<u>xsd:token</u>	<u>-W(0[1-9] 1-4)[0-9][5[0123])-1-7]T(((01)[0-9] 2[0-3]):[0-5][0-9]) (24:00))Z</u>
<u>-Www-DThh:mm±hh:mm</u>		<u>WeekDayHourMinuteUTCOffsetType</u>	<u>xsd:token</u>	<u>-W(0[1-9] 1-4)[0-9][5[0123])-1-7]T(((01)[0-9] 2[0-3]):[0-5][0-9]) (24:00))(\+ \-)((0-1)[0-9] 2[0-3]):[0-5][0-9]</u>
-Www-DThh		WeekDayHourType	xsd:token	<u>-W(0[1-9] 1-4)[0-9][5[0123])-1-7]T((0-1)[0-9] 2[0-4])</u>
<u>-Www-DThhZ</u>		<u>WeekDayHourUTCType</u>	<u>xsd:token</u>	<u>-W(0[1-9] 1-4)[0-9][5[0123])-1-7]T((0-1)[0-9] 2[0-4])Z</u>

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
<u>-Wwww-DThh±hh:mm</u>		<u>WeekDayHourUTCOffsetType</u>	<u>xsd:token</u>	<u>-W(0[1-9] [1-4][0-9] 5[0123])-[1-7]T((0-1)[0-9] 2[0-4])\+ \- ((0-1)[0-9] 2[0-3]):[0-5][0-9]</u>
-W-DThh:mm:ss		DayOfWeekTimeType	xsd:token	-W-[1-7]T(((0[1][0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9] (\.[0-9]+))))(24:00:00)
-W-DThh:mm:ssZ		DayOfWeekTimeUTCType	xsd:token	-W-[1-7]T(((0[1][0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9] (\.[0-9]+))))(24:00:00)Z
-W-DThh:mm:ss±hh:mm		DayOfWeekTimeUTCOffsetType	xsd:token	-W-[1-7]T(((0[1][0-9] 2[0-3]):[0-5][0-9]:([0-5][0-9] (\.[0-9]+))))(24:00:00)(\+ \- ((0-1)[0-9] 2[0-3]):[0-5][0-9])
-W-DThh:mm		DayOfWeekHourMinuteType	xsd:token	-W-[1-7]T(((0[1][0-9] 2[0-3]):[0-5][0-9])(24:00))
<u>-W-DThh:mmZ</u>		<u>DayOfWeekHourMinuteUTCType</u>	<u>xsd:token</u>	<u>-W-[1-7]T(((0[1][0-9] 2[0-3]):[0-5][0-9])(24:00))Z</u>
<u>-W-DThh:mm±hh:mm</u>		<u>DayOfWeekHourMinuteUTCOffsetType</u>	<u>xsd:token</u>	<u>-W-[1-7]T(((0[1][0-9] 2[0-3]):[0-5][0-9])(24:00)(\+ \- ((0-1)[0-9] 2[0-3]):[0-5][0-9])</u>
-W-DThh		DayOfWeekHourType	xsd:token	-W-[1-7]T((0-1)[0-9] 2[0-4])
<u>-W-DThhZ</u>		<u>DayOfWeekHourUTCType</u>	<u>xsd:token</u>	<u>-W-[1-7]T((0-1)[0-9] 2[0-4])Z</u>
<u>-W-DThh±hh:mm</u>		<u>DayOfWeekHourUTCOffsetType</u>	<u>xsd:token</u>	<u>-W-[1-7]T((0-1)[0-9] 2[0-4])\+ \- ((0-1)[0-9] 2[0-3]):[0-5][0-9]</u>
<u>YYYY-MM-DD</u>		<u>DateType</u>	<u>xsd:date</u>	<u>[0-9]{4}-(0[13578] 1[02])-(0[1-9] 12[0-9] 3[01])((0-9){4}-((0[469])(11))-(0[1-9] 12[0-9])30)</u> <u>[13579][26][02468][048] [13579][01345789](0)[48] [13579][01345789][2468][048] [02468][048][02468][048] [02468][1235679](0)[48] [02468][1235679][2468][048] [0-9][0-9][13579][26]-(02)-(0[1-9] 1[0-9] 2[0-9])</u> <u>([13579][26][02468][1235679] [13579][01345789](0)[01235679] [13579][01345789][2468][1235679] [02468][048][02468][1235679] [02468][1235679](0)[01235679] [02468][1235679][2468][1235679] [0-9][0-9][13579][01345789])-(02)-(0[1-9] 1[0-9] 2[0-8])</u>

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
--MM-DD		MonthDayType	xsd:gMonthDay	--(((0[13578]-(0[1-9][12][0-9][301])) (1[02]-(0[1-9][12][0-9][301])) ((0[469]-(0[1-9][12][0-9][30])) (11-(0[1-9][12][0-9][30])) (02-(0[1-9][1[0-9][2[0-9]))))
---DD		DayType	xsd:gDay	---(0[1-9][12][0-9][301])
YYYY-DDD		YearDayType	xsd:token	<p>((13579[26][02468][048][13579][01345789](0)[48][13579][01345789][2468][048][02468][048][02468][048][02468][1235679](0)[48][02468][1235679][2468][048][0-9][0-9][13579][26])--((00[1-9])(0[1-9][0-9])([1-2][0-9][0-9])([3[0-5][0-9])([36[0-6]))</p> <p>((13579[26][02468][1235679][13579][01345789](0)[01235679][13579][01345789][2468][1235679][02468][048][02468][1235679][01235679][02468][1235679][2468][1235679][0-9][0-9][13579][01345789])--((00[1-9])(0[1-9][0-9])([1-2][0-9])([3[0-5][0-9])([36[0-5]))</p>
-DDD		DayOfYearType	xsd:token	--((00[1-9])(0[1-9][0-9])([1-2][0-9][0-9])([3[0-5][0-9])([36[0-6]))
YYYY-Www-D		YearWeekDayType	xsd:token	[0-9]{4}-W(0[1-9][1-4][0-9][5[0123])-[1-7]
-Www-D		WeekDayType	xsd:token	-W(0[1-9][1-4][0-9][5[0123])-[1-7]
-W-D		DayOfWeekType	xsd:token	-W-[1-7]

195 **Table J-3: DateTime. Type (combinations of Date and Time representations)**

196 [Note:]
 197 The use of regular expressions: Regular expressions cannot validate the date-time
 198 value space to the same extent as the xsd built-in types; they can only validate the
 199 lexical space.

200 Example J-2 shows the XBT XML Schema File that defines the types expressed in
 201 the Table J-1, Table J-2 and Table J-3.

202 **Example J-2 XBT XML Schema File exerts that expresses additional built-in types to support**
 203 **ISO 8601.**

204
 205
 206
 207
 208
 209
 210

```

<!------->
<!--===== Duration types =====>
<!------->
<xsd:simpleType name="WeekDurationType">
  <xsd:annotation>
    <xsd:documentation>ISO 8601 format: nW</xsd:documentation>
  </xsd:annotation>
    
```

```

211         <xsd:restriction base="xsd:token">
212             <xsd:pattern value="\d+W"/>
213         </xsd:restriction>
214     </xsd:simpleType>
215     <!--===== Date types =====>
216     <!--===== Date types =====>
217     <!--===== Date types =====>
218     <xsd:simpleType name="CenturyType">
219         <xsd:annotation>
220             <xsd:documentation>ISO 8601 format: YY</xsd:documentation>
221         </xsd:annotation>
222         <xsd:restriction base="xsd:token">
223             <xsd:pattern value="[0-9]{2}"/>
224         </xsd:restriction>
225     </xsd:simpleType>
226     <xsd:simpleType name="DateType">
227         <xsd:annotation>
228             <xsd:documentation>ISO 8601 format: YYYY-MM-DD</xsd:documentation>
229         </xsd:annotation>
230         <xsd:restriction base="xsd:date">
231             <xsd:pattern value="([0-9]{4})-([013578]|1[02])-([01-9]|12|[0-
232 9]|3[01])|([0-9]{4})-((0[469])|(11))-([01-9]|12|[0-9]|30)"/>
233             <xsd:pattern
234 value="([13579][26][02468][048]|13579[01345789](0)[48]|13579[01345789][2468][04
235 8]|02468[048][02468][048]|02468[1235679](0)[48]|02468[1235679][2468][048]|0-
236 9][0-9][13579][26])-(02)-(0[1-9]|1[0-9]|2[0-9])"/>
237             <xsd:pattern
238 value="([13579][26][02468][1235679]|13579[01345789](0)[01235679]|13579[01345789
239 ]|2468][1235679]|02468[048][02468][1235679]|02468[1235679](0)[01235679]|02468
240 [1235679][2468][1235679]|0-9][0-9][13579][01345789])-(02)-(0[1-9]|1[0-9]|2[0-
241 8])"/>
242         </xsd:restriction>
243     </xsd:simpleType>
244     <xsd:simpleType name="DayOfWeekType">
245         <xsd:annotation>
246             <xsd:documentation>ISO 8601 format: -W-D</xsd:documentation>
247         </xsd:annotation>
248         <xsd:restriction base="xsd:token">
249             <xsd:pattern value="-W-[1-7]"/>
250         </xsd:restriction>
251     </xsd:simpleType>
252     <xsd:simpleType name="DayOfYearType">
253         <xsd:annotation>
254             <xsd:documentation>ISO 8601 format: -DDD</xsd:documentation>
255         </xsd:annotation>
256         <xsd:restriction base="xsd:token">
257             <xsd:pattern value="-((00[1-9])|(0[1-9][0-9])|([1-2][0-9][0-
258 9])|(3[0-5][0-9])|(36[0-6]))"/>
259         </xsd:restriction>
260     </xsd:simpleType>
261     <xsd:simpleType name="DayType">
262         <xsd:annotation>
263             <xsd:documentation>ISO 8601 format: ---DD</xsd:documentation>
264         </xsd:annotation>
265         <xsd:restriction base="xsd:gDay">
266             <xsd:pattern value="---(0[1-9]|12|[0-9]|3[01])"/>
267         </xsd:restriction>
268     </xsd:simpleType>
269     <xsd:simpleType name="MonthDayType">
270         <xsd:annotation>
271             <xsd:documentation>ISO 8601 format: --MM-DD</xsd:documentation>
272         </xsd:annotation>
273         <xsd:restriction base="xsd:gMonthDay">
274             <xsd:pattern value="--(((0[13578])-(0[1-9]|12|[0-
275 9]|3[01]))|(1[02])-(0[1-9]|12|[0-9]|3[01]))|((0[469])-(0[1-9]|12|[0-9]|30))|(11-
276 (0[1-9]|12|[0-9]|30))|(02)-(0[1-9]|1[0-9]|2[0-9]))"/>
277         </xsd:restriction>
278     </xsd:simpleType>
279     <xsd:simpleType name="MonthType">
280         <xsd:annotation>
281             <xsd:documentation>ISO 8601 format: --MM--</xsd:documentation>
282         </xsd:annotation>
283         <xsd:restriction base="xsd:gMonth">
284             <xsd:pattern value="--(0[1-9]|1[012])--"/>
285         </xsd:restriction>
286     </xsd:simpleType>

```

```

<xsd:simpleType name="WeekType">
  <xsd:annotation>
    <xsd:documentation>ISO 8601 format: -Www</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:token">
    <xsd:pattern value="-W(0[1-9]|[1-4][0-9]|5[0123])"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="WeekDayType">
  <xsd:annotation>
    <xsd:documentation>ISO 8601 format: -Www-D</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:token">
    <xsd:pattern value="-W(0[1-9]|[1-4][0-9]|5[0123])-[1-7]"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="YearDayType">
  <xsd:annotation>
    <xsd:documentation>ISO 8601 format: YYYY-DDD</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:token">
    <xsd:pattern
value="((([13579][26][02468][048]|([13579][01345789](0)[48]|([13579][01345789][2468][04
8]|([02468][048][02468][048]|([02468][1235679](0)[48]|([02468][1235679][2468][048]|([0-
9][0-9][13579][26])-(00[1-9])|(0[1-9][0-9])|([1-2][0-9][0-9])|(3[0-5][0-9])|(36[0-
6])))/>
    <xsd:pattern
value="((([13579][26][02468][1235679]|([13579][01345789](0)[01235679]|([13579][01345789
][2468][1235679]|([02468][048][02468][1235679]|([02468][1235679](0)[01235679]|([02468
][1235679][2468][1235679]|([0-9][0-9][13579][01345789])-(00[1-9])|(0[1-9][0-9])|([1-
2][0-9][0-9])|(3[0-5][0-9])|(36[0-5])))/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="YearMonthType">
  <xsd:annotation>
    <xsd:documentation>ISO 8601 format: YYYY-MM</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:gYearMonth">
    <xsd:pattern value="[0-9]{4}-(0[1-9]|1[012])"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="YearType">
  <xsd:annotation>
    <xsd:documentation>ISO 8601 format: YYYY</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:gYear">
    <xsd:pattern value="[0-9]{4}"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="YearWeekType">
  <xsd:annotation>
    <xsd:documentation>ISO 8601 format: YYYY-Www</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:token">
    <xsd:pattern value="[0-9]{4}-W(0[1-9]|[1-4][0-9]|5[0123])"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="YearWeekDayType">
  <xsd:annotation>
    <xsd:documentation>ISO 8601 format: YYYY-Www-D</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:token">
    <xsd:pattern value="[0-9]{4}-W(0[1-9]|[1-4][0-9]|5[0123])-[1-7]"/>
  </xsd:restriction>
</xsd:simpleType>
<!------->
<!--===== Time types =====>
<!------->
<xsd:simpleType name="HourMinuteType">
  <xsd:annotation>
    <xsd:documentation>ISO 8601 format: hh:mm</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:token">
    <xsd:pattern value="((0[1][0-9]|2[0-3]):[0-5][0-9])|(24:00)"/>
  </xsd:restriction>
</xsd:simpleType>

```

```

363 <xsd:simpleType name="HourMinuteUTCType">
364   <xsd:annotation>
365     <xsd:documentation>ISO 8601 format: hh:mmZ</xsd:documentation>
366   </xsd:annotation>
367   <xsd:restriction base="xsd:token">
368     <xsd:pattern value="((([01][0-9]|2[0-3]):[0-5][0-9])|(24:00))Z"/>
369   </xsd:restriction>
370 </xsd:simpleType>
371 <xsd:simpleType name="HourMinuteUTCOffsetType">
372   <xsd:annotation>
373     <xsd:documentation>ISO 8601 format:
374 hh:mm+hh:mm</xsd:documentation>
375   </xsd:annotation>
376   <xsd:restriction base="xsd:token">
377     <xsd:pattern value="((([01][0-9]|2[0-3]):[0-5][0-
378 9])|(24:00))([\+|\-]([0-1][0-9]|2[0-3]):[0-5][0-9])"/>
379   </xsd:restriction>
380 </xsd:simpleType>
381 <xsd:simpleType name="HourType">
382   <xsd:annotation>
383     <xsd:documentation>ISO 8601 format: hh</xsd:documentation>
384   </xsd:annotation>
385   <xsd:restriction base="xsd:token">
386     <xsd:pattern value="([0-1][0-9]|2[0-4])"/>
387   </xsd:restriction>
388 </xsd:simpleType>
389 <xsd:simpleType name="HourUTCType">
390   <xsd:annotation>
391     <xsd:documentation>ISO 8601 format: hhZ</xsd:documentation>
392   </xsd:annotation>
393   <xsd:restriction base="xsd:token">
394     <xsd:pattern value="([0-1][0-9]|2[0-4])Z"/>
395   </xsd:restriction>
396 </xsd:simpleType>
397 <xsd:simpleType name="HourUTCOffsetType">
398   <xsd:annotation>
399     <xsd:documentation>ISO 8601 format: hh+hh:mm</xsd:documentation>
400   </xsd:annotation>
401   <xsd:restriction base="xsd:token">
402     <xsd:pattern value="([0-1][0-9]|2[0-4])([\+|\-]([0-1][0-9]|2[0-
403 3]):[0-5][0-9])"/>
404   </xsd:restriction>
405 </xsd:simpleType>
406 <xsd:simpleType name="MinuteType">
407   <xsd:annotation>
408     <xsd:documentation>ISO 8601 format: -mm</xsd:documentation>
409   </xsd:annotation>
410   <xsd:restriction base="xsd:token">
411     <xsd:pattern value="-[0-5][0-9]"/>
412   </xsd:restriction>
413 </xsd:simpleType>
414 <xsd:simpleType name="MinuteSecondType">
415   <xsd:annotation>
416     <xsd:documentation>ISO 8601 format: -mm:ss</xsd:documentation>
417   </xsd:annotation>
418   <xsd:restriction base="xsd:token">
419     <xsd:pattern value="-[0-5][0-9]:[0-5][0-9](|(\.[0-9]+))"/>
420   </xsd:restriction>
421 </xsd:simpleType>
422 <xsd:simpleType name="SecondType">
423   <xsd:annotation>
424     <xsd:documentation>ISO 8601 format: --ss</xsd:documentation>
425   </xsd:annotation>
426   <xsd:restriction base="xsd:token">
427     <xsd:pattern value="--[0-5][0-9](|(\.[0-9]+))"/>
428   </xsd:restriction>
429 </xsd:simpleType>
430 <xsd:simpleType name="TimeType">
431   <xsd:annotation>
432     <xsd:documentation>ISO 8601 format: hh:mm:ss</xsd:documentation>
433   </xsd:annotation>
434   <xsd:restriction base="xsd:time">
435     <xsd:pattern value="((([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-
436 9](|(\.[0-9]+))))|(24:00:00))"/>
437   </xsd:restriction>
438 </xsd:simpleType>

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<xsd:simpleType name="TimeUTCType">
  <xsd:annotation>
    <xsd:documentation>ISO 8601 format: hh:mm:ssZ</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:time">
    <xsd:pattern value="((([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9])|(\.[0-9]+))|(24:00:00))Z"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="TimeUTCOffsetType">
  <xsd:annotation>
    <xsd:documentation>ISO 8601 format:
hh:mm:ss+hh:mm</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:time">
    <xsd:pattern value="((([01][0-9]|2[0-3]):[0-5][0-9]:[0-5][0-9])|(\.[0-9]+))|(24:00:00))(\+|\-)(([0-1][0-9]|2[0-3]):[0-5][0-9])"/>
  </xsd:restriction>
</xsd:simpleType>
<!------->
<!--===== DateTime types =====>
<!------->
<xsd:simpleType name="DateHourMinuteType">
  <xsd:annotation>
    <xsd:documentation>ISO 8601 format: YYYY-MM-
DDThh:mm</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:token">
    <xsd:pattern value="((([0-9]{4})-(0[13578]|1[02])-(0[1-9]|12)[0-9]|3[01])|([0-9]{4})-(0[469]|(11)-(0[1-9]|12)[0-9]|30))T((([01][0-9]|2[0-3]):[0-5][0-9])|(24:00))"/>
    <xsd:pattern
value="([13579][26][02468][048]|[13579][01345789](0)[48]|[13579][01345789][2468][048]|
[02468][048][02468][048]|[02468][1235679](0)[48]|[02468][1235679][2468][048]|
[0-9][0-9][13579][26])-(02)-(0[1-9]|1[0-9]|2[0-9])T((([01][0-9]|2[0-3]):[0-5][0-9])|(24:00))"/>
    <xsd:pattern
value="([13579][26][02468][1235679]|[13579][01345789](0)[01235679]|[13579][01345789]
[2468][1235679]|[02468][048][02468][1235679]|[02468][1235679](0)[01235679]|
[02468][1235679][2468][1235679]|[0-9][0-9][13579][01345789])-(02)-(0[1-9]|1[0-9]|2[0-8])T((([01][0-9]|2[0-3]):[0-5][0-9])|(24:00))"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="DateHourMinuteUTCType">
  <xsd:annotation>
    <xsd:documentation>ISO 8601 format: YYYY-MM-
DDThh:mmZ</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:token">
    <xsd:pattern value="((([0-9]{4})-(0[13578]|1[02])-(0[1-9]|12)[0-9]|3[01])|([0-9]{4})-(0[469]|(11)-(0[1-9]|12)[0-9]|30))T((([01][0-9]|2[0-3]):[0-5][0-9])|(24:00))Z"/>
    <xsd:pattern
value="([13579][26][02468][048]|[13579][01345789](0)[48]|[13579][01345789][2468][048]|
[02468][048][02468][048]|[02468][1235679](0)[48]|[02468][1235679][2468][048]|
[0-9][0-9][13579][26])-(02)-(0[1-9]|1[0-9]|2[0-9])T((([01][0-9]|2[0-3]):[0-5][0-9])|(24:00))Z"/>
    <xsd:pattern
value="([13579][26][02468][1235679]|[13579][01345789](0)[01235679]|[13579][01345789]
[2468][1235679]|[02468][048][02468][1235679]|[02468][1235679](0)[01235679]|
[02468][1235679][2468][1235679]|[0-9][0-9][13579][01345789])-(02)-(0[1-9]|1[0-9]|2[0-8])T((([01][0-9]|2[0-3]):[0-5][0-9])|(24:00))Z"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="DateHourMinuteUTCOffsetType">
  <xsd:annotation>
    <xsd:documentation>ISO 8601 format: YYYY-MM-
DDThh:mm+hh:mm</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:token">
    <xsd:pattern value="((([0-9]{4})-(0[13578]|1[02])-(0[1-9]|12)[0-9]|3[01])|([0-9]{4})-(0[469]|(11)-(0[1-9]|12)[0-9]|30))T((([01][0-9]|2[0-3]):[0-5][0-9])|(24:00))(\+|\-)(([0-1][0-9]|2[0-3]):[0-5][0-9])"/>

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        <xsd:pattern
value="([13579][26][02468][048]|[13579][01345789](0)[48]|[13579][01345789][2468][04
8]|[02468][048][02468][048]|[02468][1235679](0)[48]|[02468][1235679][2468][048]|[0-
9][0-9][13579][26])-(02)-(0[1-9])[1[0-9]|2[0-9]]T((([01][0-9]|2[0-3]):[0-5][0-
9])|((24:00)))([+|\-]([0-1][0-9]|2[0-3]):[0-5][0-9])"/>
        <xsd:pattern
value="([13579][26][02468][1235679]|[13579][01345789](0)[01235679]|[13579][01345789
][2468][1235679]|[02468][048][02468][1235679]|[02468][1235679](0)[01235679]|[02468
][1235679][2468][1235679]|[0-9][0-9][13579][01345789])-(02)-(0[1-9])[1[0-9]|2[0-
8]]T((([01][0-9]|2[0-3]):[0-5][0-9])|((24:00)))([+|\-]([0-1][0-9]|2[0-3]):[0-5][0-
9])"/>
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="DateHourType">
    <xsd:annotation>
        <xsd:documentation>ISO 8601 format: YYYY-MM-
DDThh</xsd:documentation>
    </xsd:annotation>
    <xsd:restriction base="xsd:token">
        <xsd:pattern value="((([0-9]{4})-(0[13578]|1[02])-(0[1-9]|12)[0-
9]|3[01])|([0-9]{4})-(0[469])|(11)-(0[1-9]|12)[0-9]|30))T((([01][0-9])|(2[0-
4]))"/>
        <xsd:pattern
value="((([13579][26][02468][048]|[13579][01345789](0)[48]|[13579][01345789][2468][0
48]|[02468][048][02468][048]|[02468][1235679](0)[48]|[02468][1235679][2468][048]|[0-
9][0-9][13579][26])-(02)-(0[1-9])[1[0-9]|2[0-9]])T((([01][0-9])|(2[0-4]))"/>
        <xsd:pattern
value="((([13579][26][02468][1235679]|[13579][01345789](0)[01235679]|[13579][0134578
9][2468][1235679]|[02468][048][02468][1235679]|[02468][1235679](0)[01235679]|[02468
][1235679][2468][1235679]|[0-9][0-9][13579][01345789])-(02)-(0[1-9])[1[0-9]|2[0-
8]))T((([01][0-9])|(2[0-4]))"/>
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="DateHourUTCType">
    <xsd:annotation>
        <xsd:documentation>ISO 8601 format: YYYY-MM-
DDThhZ</xsd:documentation>
    </xsd:annotation>
    <xsd:restriction base="xsd:token">
        <xsd:pattern value="((([0-9]{4})-(0[13578]|1[02])-(0[1-9]|12)[0-
9]|3[01])|([0-9]{4})-(0[469])|(11)-(0[1-9]|12)[0-9]|30))T((([01][0-9])|(2[0-
4]))Z"/>
        <xsd:pattern
value="((([13579][26][02468][048]|[13579][01345789](0)[48]|[13579][01345789][2468][0
48]|[02468][048][02468][048]|[02468][1235679](0)[48]|[02468][1235679][2468][048]|[0-
9][0-9][13579][26])-(02)-(0[1-9])[1[0-9]|2[0-9]])T((([01][0-9])|(2[0-4]))Z"/>
        <xsd:pattern
value="((([13579][26][02468][1235679]|[13579][01345789](0)[01235679]|[13579][0134578
9][2468][1235679]|[02468][048][02468][1235679]|[02468][1235679](0)[01235679]|[02468
][1235679][2468][1235679]|[0-9][0-9][13579][01345789])-(02)-(0[1-9])[1[0-9]|2[0-
8]))T((([01][0-9])|(2[0-4]))Z"/>
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="DateHourUTCOffsetType">
    <xsd:annotation>
        <xsd:documentation>ISO 8601 format: YYYY-MM-
DDThh+hh:mm</xsd:documentation>
    </xsd:annotation>
    <xsd:restriction base="xsd:token">
        <xsd:pattern value="((([0-9]{4})-(0[13578]|1[02])-(0[1-9]|12)[0-
9]|3[01])|([0-9]{4})-(0[469])|(11)-(0[1-9]|12)[0-9]|30))T((([01][0-9])|(2[0-
4]))([+|\-]([0-1][0-9]|2[0-3]):[0-5][0-9])"/>
        <xsd:pattern
value="((([13579][26][02468][048]|[13579][01345789](0)[48]|[13579][01345789][2468][0
48]|[02468][048][02468][048]|[02468][1235679](0)[48]|[02468][1235679][2468][048]|[0-
9][0-9][13579][26])-(02)-(0[1-9])[1[0-9]|2[0-9]])T((([01][0-9])|(2[0-4]))([+|\-]
([0-1][0-9]|2[0-3]):[0-5][0-9])"/>
        <xsd:pattern
value="((([13579][26][02468][1235679]|[13579][01345789](0)[01235679]|[13579][0134578
9][2468][1235679]|[02468][048][02468][1235679]|[02468][1235679](0)[01235679]|[02468
][1235679][2468][1235679]|[0-9][0-9][13579][01345789])-(02)-(0[1-9])[1[0-9]|2[0-
8]))T((([01][0-9])|(2[0-4]))([+|\-]([0-1][0-9]|2[0-3]):[0-5][0-9])"/>
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="DateTimeType">
    <xsd:annotation>

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        <xsd:documentation>ISO 8601 format: YYYY-MM-DDThh:mm:ss</xsd:documentation>
    </xsd:annotation>
    <xsd:restriction base="xsd:dateTime">
        <xsd:pattern value="((([0-9]{4})-(0[13578]|1[02])-(0[1-9]|12)[0-9]{3}[01])|([0-9]{4})-(0[469]|(11))-(0[1-9]|12)[0-9]{3}0)T((([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9](|(\.[0-9]+))))|(24:00:00))"/>
        <xsd:pattern
value="([13579][26][02468][048]|[13579][01345789](0)[48]|[13579][01345789][2468][048]|[02468][048][02468][048]|[02468][1235679](0)[48]|[02468][1235679][2468][048]|[0-9][0-9][13579][26])-(02)-(0[1-9]|1[0-9]|2[0-9])T((([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9](|(\.[0-9]+))))|(24:00:00))"/>
        <xsd:pattern
value="([13579][26][02468][048]|[13579][01345789](0)[48]|[13579][01345789][2468][048]|[02468][048][02468][048]|[02468][1235679](0)[48]|[02468][1235679][2468][048]|[0-9][0-9][13579][26])-(02)-(0[1-9]|1[0-9]|2[0-9])T((([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9](|(\.[0-9]+))))|(24:00:00))"/>
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="DateTimeUTCType">
    <xsd:annotation>
        <xsd:documentation>ISO 8601 format: YYYY-MM-DDThh:mm:ssZ</xsd:documentation>
    </xsd:annotation>
    <xsd:restriction base="xsd:dateTime">
        <xsd:pattern value="((([0-9]{4})-(0[13578]|1[02])-(0[1-9]|12)[0-9]{3}[01])|([0-9]{4})-(0[469]|(11))-(0[1-9]|12)[0-9]{3}0)T((([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9](|(\.[0-9]+))))|(24:00:00))Z"/>
        <xsd:pattern
value="([13579][26][02468][048]|[13579][01345789](0)[48]|[13579][01345789][2468][048]|[02468][048][02468][048]|[02468][1235679](0)[48]|[02468][1235679][2468][048]|[0-9][0-9][13579][26])-(02)-(0[1-9]|1[0-9]|2[0-9])T((([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9](|(\.[0-9]+))))|(24:00:00))Z"/>
        <xsd:pattern
value="([13579][26][02468][1235679]|[13579][01345789](0)[01235679]|[13579][01345789][2468][1235679]|[02468][048][02468][1235679]|[02468][1235679][01235679]|[02468][1235679][2468][1235679]|[0-9][0-9][13579][26])-(02)-(0[1-9]|1[0-9]|2[0-9])T((([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9](|(\.[0-9]+))))|(24:00:00))Z"/>
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="DateTimeUTCOffsetType">
    <xsd:annotation>
        <xsd:documentation>ISO 8601 format: YYYY-MM-DDThh:mm:ss+hh:mm</xsd:documentation>
    </xsd:annotation>
    <xsd:restriction base="xsd:dateTime">
        <xsd:pattern value="((([0-9]{4})-(0[13578]|1[02])-(0[1-9]|12)[0-9]{3}[01])|([0-9]{4})-(0[469]|(11))-(0[1-9]|12)[0-9]{3}0)T((([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9](|(\.[0-9]+))))|(24:00:00))([\+|\-]([0-1][0-9]|2[0-3]):[0-5][0-9])"/>
        <xsd:pattern
value="([13579][26][02468][048]|[13579][01345789](0)[48]|[13579][01345789][2468][048]|[02468][048][02468][048]|[02468][1235679](0)[48]|[02468][1235679][2468][048]|[0-9][0-9][13579][26])-(02)-(0[1-9]|1[0-9]|2[0-9])T((([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9](|(\.[0-9]+))))|(24:00:00))([\+|\-]([0-1][0-9]|2[0-3]):[0-5][0-9])"/>
        <xsd:pattern
value="([13579][26][02468][1235679]|[13579][01345789](0)[01235679]|[13579][01345789][2468][1235679]|[02468][048][02468][1235679]|[02468][1235679][01235679]|[02468][1235679][2468][1235679]|[0-9][0-9][13579][26])-(02)-(0[1-9]|1[0-9]|2[0-8])T((([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9](|(\.[0-9]+))))|(24:00:00))([\+|\-]([0-1][0-9]|2[0-3]):[0-5][0-9])"/>
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="DayHourMinuteType">
    <xsd:annotation>
        <xsd:documentation>ISO 8601 format: ---
    DDThh:mm</xsd:documentation>
    </xsd:annotation>
    <xsd:restriction base="xsd:token">
        <xsd:pattern value="---(0[1-9]|12)[0-9]|3[01]T((([01][0-9]|2[0-3]):[0-5][0-9])|(24:00))"/>
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="DayHourMinuteUTCType">
    <xsd:annotation>

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663         <xsd:documentation>ISO 8601 format: ---
664 DDThh:mmZ</xsd:documentation>
665     </xsd:annotation>
666     <xsd:restriction base="xsd:token">
667         <xsd:pattern value="---(0[1-9]|[12][0-9]|3[01])T(((01[0-9]|2[0-
668 3]):[0-5][0-9])|(24:00))Z"/>
669     </xsd:restriction>
670 </xsd:simpleType>
671 <xsd:simpleType name="DayHourMinuteUTCOffsetType">
672     <xsd:annotation>
673         <xsd:documentation>ISO 8601 format: ---
674 DDThh:mm+hh:mm</xsd:documentation>
675     </xsd:annotation>
676     <xsd:restriction base="xsd:token">
677         <xsd:pattern value="---(0[1-9]|[12][0-9]|3[01])T(((01[0-9]|2[0-
678 3]):[0-5][0-9])|(\+|\-)([0-1][0-9]|2[0-3]):[0-5][0-9])"/>
679     </xsd:restriction>
680 </xsd:simpleType>
681 <xsd:simpleType name="DayHourType">
682     <xsd:annotation>
683         <xsd:documentation>ISO 8601 format: ---DDThh</xsd:documentation>
684     </xsd:annotation>
685     <xsd:restriction base="xsd:token">
686         <xsd:pattern value="---(0[1-9]|[12][0-9]|3[01])T([0-1][0-9]|2[0-
687 4])"/>
688     </xsd:restriction>
689 </xsd:simpleType>
690 <xsd:simpleType name="DayHourUTCType">
691     <xsd:annotation>
692         <xsd:documentation>ISO 8601 format: ---DDThhZ</xsd:documentation>
693     </xsd:annotation>
694     <xsd:restriction base="xsd:token">
695         <xsd:pattern value="---(0[1-9]|[12][0-9]|3[01])T([0-1][0-9]|2[0-
696 4])Z"/>
697     </xsd:restriction>
698 </xsd:simpleType>
699 <xsd:simpleType name="DayHourUTCOffsetType">
700     <xsd:annotation>
701         <xsd:documentation>ISO 8601 format: ---
702 DDThh+hh:mm</xsd:documentation>
703     </xsd:annotation>
704     <xsd:restriction base="xsd:token">
705         <xsd:pattern value="---(0[1-9]|[12][0-9]|3[01])T([0-1][0-9]|2[0-
706 4])\+|\-)([0-1][0-9]|2[0-3]):[0-5][0-9])"/>
707     </xsd:restriction>
708 </xsd:simpleType>
709 <xsd:simpleType name="DayOfWeekHourMinuteType">
710     <xsd:annotation>
711         <xsd:documentation>ISO 8601 format: -W-DThh:mm</xsd:documentation>
712     </xsd:annotation>
713     <xsd:restriction base="xsd:token">
714         <xsd:pattern value="-W-[1-7]T(((01[0-9]|2[0-3]):[0-5][0-
715 9])|(24:00))"/>
716     </xsd:restriction>
717 </xsd:simpleType>
718 <xsd:simpleType name="DayOfWeekHourMinuteUTCType">
719     <xsd:annotation>
720         <xsd:documentation>ISO 8601 format: -W-
721 DThh:mmZ</xsd:documentation>
722     </xsd:annotation>
723     <xsd:restriction base="xsd:token">
724         <xsd:pattern value="-W-[1-7]T(((01[0-9]|2[0-3]):[0-5][0-
725 9])|(24:00))Z"/>
726     </xsd:restriction>
727 </xsd:simpleType>
728 <xsd:simpleType name="DayOfWeekHourMinuteUTCOffsetType">
729     <xsd:annotation>
730         <xsd:documentation>ISO 8601 format: -W-
731 DThh:mm+hh:mm</xsd:documentation>
732     </xsd:annotation>
733     <xsd:restriction base="xsd:token">
734         <xsd:pattern value="-W-[1-7]T(((01[0-9]|2[0-3]):[0-5][0-
735 9])|(24:00))(\+|\-)([0-1][0-9]|2[0-3]):[0-5][0-9])"/>
736     </xsd:restriction>
737 </xsd:simpleType>
738 <xsd:simpleType name="DayOfWeekHourType">

```

```

739     <xsd:annotation>
740         <xsd:documentation>ISO 8601 format: -W-DTh</xsd:documentation>
741     </xsd:annotation>
742     <xsd:restriction base="xsd:token">
743         <xsd:pattern value="-W-[1-7]T([0-1][0-9]|2[0-4])"/>
744     </xsd:restriction>
745 </xsd:simpleType>
746 <xsd:simpleType name="DayOfWeekHourUTCType">
747     <xsd:annotation>
748         <xsd:documentation>ISO 8601 format: -W-DThZ</xsd:documentation>
749     </xsd:annotation>
750     <xsd:restriction base="xsd:token">
751         <xsd:pattern value="-W-[1-7]T([0-1][0-9]|2[0-4])Z"/>
752     </xsd:restriction>
753 </xsd:simpleType>
754 <xsd:simpleType name="DayOfWeekHourUTCOffsetType">
755     <xsd:annotation>
756         <xsd:documentation>ISO 8601 format: -W-
757 DThh+hh:mm</xsd:documentation>
758     </xsd:annotation>
759     <xsd:restriction base="xsd:token">
760         <xsd:pattern value="-W-[1-7]T([0-1][0-9]|2[0-4])[\+|\-]([0-1][0-
761 9]|2[0-3]):[0-5][0-9]"/>
762     </xsd:restriction>
763 </xsd:simpleType>
764 <xsd:simpleType name="DayOfWeekTimeType">
765     <xsd:annotation>
766         <xsd:documentation>ISO 8601 format: -W-
767 DTh:mm:ss</xsd:documentation>
768     </xsd:annotation>
769     <xsd:restriction base="xsd:token">
770         <xsd:pattern value="-W-[1-7]T(((01[0-9]|2[0-3]):[0-5][0-9]:([0-
771 5][0-9]|\.[0-9]+)))|(24:00:00)"/>
772     </xsd:restriction>
773 </xsd:simpleType>
774 <xsd:simpleType name="DayOfWeekTimeUTCType">
775     <xsd:annotation>
776         <xsd:documentation>ISO 8601 format: -W-
777 DTh:mm:ssZ</xsd:documentation>
778     </xsd:annotation>
779     <xsd:restriction base="xsd:token">
780         <xsd:pattern value="-W-[1-7]T(((01[0-9]|2[0-3]):[0-5][0-9]:([0-
781 5][0-9]|\.[0-9]+)))|(24:00:00)Z"/>
782     </xsd:restriction>
783 </xsd:simpleType>
784 <xsd:simpleType name="DayOfWeekTimeUTCOffsetType">
785     <xsd:annotation>
786         <xsd:documentation>ISO 8601 format: -W-
787 DTh:mm:ss+hh:mm</xsd:documentation>
788     </xsd:annotation>
789     <xsd:restriction base="xsd:token">
790         <xsd:pattern value="-W-[1-7]T(((01[0-9]|2[0-3]):[0-5][0-9]:([0-
791 5][0-9]|\.[0-9]+)))|(24:00:00)([\+|\-]([0-1][0-9]|2[0-3]):[0-5][0-9]"/>
792     </xsd:restriction>
793 </xsd:simpleType>
794 <xsd:simpleType name="DayOfYearHourMinuteType">
795     <xsd:annotation>
796         <xsd:documentation>ISO 8601 format: -DDDThh:mm</xsd:documentation>
797     </xsd:annotation>
798     <xsd:restriction base="xsd:token">
799         <xsd:pattern value="-((00[1-9])|(0[1-9][0-9])|([1-2][0-9][0-
800 9])|(3[0-5][0-9])|(36[0-6]))T(((01[0-9]|2[0-3]):[0-5][0-9])|(24:00))"/>
801     </xsd:restriction>
802 </xsd:simpleType>
803 <xsd:simpleType name="DayOfYearHourMinuteUTCType">
804     <xsd:annotation>
805         <xsd:documentation>ISO 8601 format: -
806 DDDThh:mmZ</xsd:documentation>
807     </xsd:annotation>
808     <xsd:restriction base="xsd:token">
809         <xsd:pattern value="-((00[1-9])|(0[1-9][0-9])|([1-2][0-9][0-
810 9])|(3[0-5][0-9])|(36[0-6]))T(((01[0-9]|2[0-3]):[0-5][0-9])|(24:00)Z"/>
811     </xsd:restriction>
812 </xsd:simpleType>
813 <xsd:simpleType name="DayOfYearHourMinuteUTCOffsetType">
814     <xsd:annotation>

```

```

115 <xsd:documentation>ISO 8601 format: -
116 DDDThh:mm+hh:mm</xsd:documentation>
117 </xsd:annotation>
118 <xsd:restriction base="xsd:token">
119 <xsd:pattern value="-((00[1-9])|(0[1-9][0-9])|([1-2][0-9][0-
120 9])|(3[0-5][0-9])|(36[0-6]))T(((01[0-9]|2[0-3]):[0-5][0-9])|(24:00))(\+|\-|([0-
121 1][0-9]|2[0-3]):[0-5][0-9])"/>
122 </xsd:restriction>
123 </xsd:simpleType>
124 <xsd:simpleType name="DayOfYearHourType">
125 <xsd:annotation>
126 <xsd:documentation>ISO 8601 format: -DDDThh</xsd:documentation>
127 </xsd:annotation>
128 <xsd:restriction base="xsd:token">
129 <xsd:pattern value="-((00[1-9])|(0[1-9][0-9])|([1-2][0-9][0-
130 9])|(3[0-5][0-9])|(36[0-6]))T([0-1][0-9]|2[0-4])"/>
131 </xsd:restriction>
132 </xsd:simpleType>
133 <xsd:simpleType name="DayOfYearHourUTCType">
134 <xsd:annotation>
135 <xsd:documentation>ISO 8601 format: -DDDThhZ</xsd:documentation>
136 </xsd:annotation>
137 <xsd:restriction base="xsd:token">
138 <xsd:pattern value="-((00[1-9])|(0[1-9][0-9])|([1-2][0-9][0-
139 9])|(3[0-5][0-9])|(36[0-6]))T([0-1][0-9]|2[0-4])Z"/>
140 </xsd:restriction>
141 </xsd:simpleType>
142 <xsd:simpleType name="DayOfYearHourUTCOffsetType">
143 <xsd:annotation>
144 <xsd:documentation>ISO 8601 format: -
145 DDDThh+hh:mm</xsd:documentation>
146 </xsd:annotation>
147 <xsd:restriction base="xsd:token">
148 <xsd:pattern value="-((00[1-9])|(0[1-9][0-9])|([1-2][0-9][0-
149 9])|(3[0-5][0-9])|(36[0-6]))T([0-1][0-9]|2[0-4])(\+|\-|([0-1][0-9]|2[0-3]):[0-
150 5][0-9])"/>
151 </xsd:restriction>
152 </xsd:simpleType>
153 <xsd:simpleType name="DayOfYearTimeType">
154 <xsd:annotation>
155 <xsd:documentation>ISO 8601 format: -
156 DDDThh:mm:ss</xsd:documentation>
157 </xsd:annotation>
158 <xsd:restriction base="xsd:token">
159 <xsd:pattern value="-((00[1-9])|(0[1-9][0-9])|([1-2][0-9][0-
160 9])|(3[0-5][0-9])|(36[0-6]))T(((01[0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|(\.[0-
161 9]+))|(24:00:00))"/>
162 </xsd:restriction>
163 </xsd:simpleType>
164 <xsd:simpleType name="DayOfYearTimeUTCType">
165 <xsd:annotation>
166 <xsd:documentation>ISO 8601 format: -
167 DDDThh:mm:ssZ</xsd:documentation>
168 </xsd:annotation>
169 <xsd:restriction base="xsd:token">
170 <xsd:pattern value="-((00[1-9])|(0[1-9][0-9])|([1-2][0-9][0-
171 9])|(3[0-5][0-9])|(36[0-6]))T(((01[0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|(\.[0-
172 9]+))|(24:00:00))Z"/>
173 </xsd:restriction>
174 </xsd:simpleType>
175 <xsd:simpleType name="DayOfYearTimeUTCOffsetType">
176 <xsd:annotation>
177 <xsd:documentation>ISO 8601 format: -
178 DDDThh:mm:ss+hh:mm</xsd:documentation>
179 </xsd:annotation>
180 <xsd:restriction base="xsd:token">
181 <xsd:pattern value="-((00[1-9])|(0[1-9][0-9])|([1-2][0-9][0-
182 9])|(3[0-5][0-9])|(36[0-6]))T(((01[0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|(\.[0-
183 9]+))|(24:00:00))(\+|\-|([0-1][0-9]|2[0-3]):[0-5][0-9])"/>
184 </xsd:restriction>
185 </xsd:simpleType>
186 <xsd:simpleType name="DayTimeType">
187 <xsd:annotation>
188 <xsd:documentation>ISO 8601 format: ---
189 DDThh:mm:ss</xsd:documentation>
190 </xsd:annotation>

```

```

        <xsd:restriction base="xsd:token">
          <xsd:pattern value="---(0[1-9]|[12][0-9]|3[01])T(((01[0-9]|2[0-
3]):[0-5][0-9]:([0-5][0-9](|\.[0-9]+)))|(24:00:00))"/>
        </xsd:restriction>
      </xsd:simpleType>
      <xsd:simpleType name="DayTimeUTCType">
        <xsd:annotation>
          <xsd:documentation>ISO 8601 format: ---
DDThh:mm:ssZ</xsd:documentation>
        </xsd:annotation>
        <xsd:restriction base="xsd:token">
          <xsd:pattern value="---(0[1-9]|[12][0-9]|3[01])T(((01[0-9]|2[0-
3]):[0-5][0-9]:([0-5][0-9](|\.[0-9]+)))|(24:00:00))Z"/>
        </xsd:restriction>
      </xsd:simpleType>
      <xsd:simpleType name="DayTimeUTCOffsetType">
        <xsd:annotation>
          <xsd:documentation>ISO 8601 format: ---
DDThh:mm:ss+hh:mm</xsd:documentation>
        </xsd:annotation>
        <xsd:restriction base="xsd:token">
          <xsd:pattern value="---(0[1-9]|[12][0-9]|3[01])T(((01[0-9]|2[0-
3]):[0-5][0-9]:([0-5][0-9](|\.[0-9]+)))|(24:00:00))([\+|\-]([0-1][0-9]|2[0-
3]):[0-5][0-9])"/>
        </xsd:restriction>
      </xsd:simpleType>
      <xsd:simpleType name="MonthDayHourMinuteType">
        <xsd:annotation>
          <xsd:documentation>ISO 8601 format: -MM-
DDThh:mm</xsd:documentation>
        </xsd:annotation>
        <xsd:restriction base="xsd:token">
          <xsd:pattern value="--((0[13578]-(0[1-9]|[12][0-
9]|3[01]))|(1[02]-(0[1-9]|[12][0-9]|3[01])))|((0[469]-(0[1-9]|[12][0-9]|30))|(11-
(0[1-9]|[12][0-9]|30))|(02-(0[1-9]|1[0-9]|2[0-9])))T(((01[0-9]|2[0-3]):[0-5][0-
9])|(24:00))"/>
        </xsd:restriction>
      </xsd:simpleType>
      <xsd:simpleType name="MonthDayHourMinuteUTCType">
        <xsd:annotation>
          <xsd:documentation>ISO 8601 format: -MM-
DDThh:mmZ</xsd:documentation>
        </xsd:annotation>
        <xsd:restriction base="xsd:token">
          <xsd:pattern value="--((0[13578]-(0[1-9]|[12][0-
9]|3[01]))|(1[02]-(0[1-9]|[12][0-9]|3[01])))|((0[469]-(0[1-9]|[12][0-9]|30))|(11-
(0[1-9]|[12][0-9]|30))|(02-(0[1-9]|1[0-9]|2[0-9])))T(((01[0-9]|2[0-3]):[0-5][0-
9])|(24:00))Z"/>
        </xsd:restriction>
      </xsd:simpleType>
      <xsd:simpleType name="MonthDayHourMinuteUTCOffsetType">
        <xsd:annotation>
          <xsd:documentation>ISO 8601 format: -MM-
DDThh:mm+hh:mm</xsd:documentation>
        </xsd:annotation>
        <xsd:restriction base="xsd:token">
          <xsd:pattern value="--((0[13578]-(0[1-9]|[12][0-
9]|3[01]))|(1[02]-(0[1-9]|[12][0-9]|3[01])))|((0[469]-(0[1-9]|[12][0-9]|30))|(11-
(0[1-9]|[12][0-9]|30))|(02-(0[1-9]|1[0-9]|2[0-9])))T(((01[0-9]|2[0-3]):[0-5][0-
9])|(24:00))([\+|\-]([0-1][0-9]|2[0-3]):[0-5][0-9])"/>
        </xsd:restriction>
      </xsd:simpleType>
      <xsd:simpleType name="MonthDayHourType">
        <xsd:annotation>
          <xsd:documentation>ISO 8601 format: -MM-DDThh</xsd:documentation>
        </xsd:annotation>
        <xsd:restriction base="xsd:token">
          <xsd:pattern value="-((0[13578]-(0[1-9]|[12][0-9]|3[01]))|(1[02]-
(0[1-9]|[12][0-9]|3[01])))|((0[469]-(0[1-9]|[12][0-9]|30))|(11-(0[1-9]|[12][0-
9]|30))|(02-(0[1-9]|1[0-9]|2[0-9])))T([0-1][0-9]|2[0-4])"/>
        </xsd:restriction>
      </xsd:simpleType>
      <xsd:simpleType name="MonthDayHourUTCType">
        <xsd:annotation>
          <xsd:documentation>ISO 8601 format: -MM-DDThhZ</xsd:documentation>
        </xsd:annotation>

```

```

        <xsd:restriction base="xsd:token">
          <xsd:pattern value="-(((0[13578]-([01-9]|[12][0-9]|3[01]))|(1[02]-
(0[1-9]|[12][0-9]|3[01]))|((0[469]-([01-9]|[12][0-9]|30))|(11-(0[1-9]|[12][0-
9]|30))|(02-(0[1-9]|1[0-9]|2[0-9])))T([0-1][0-9]|2[0-4])Z"/>
        </xsd:restriction>
      </xsd:simpleType>
      <xsd:simpleType name="MonthDayHourUTCOffsetType">
        <xsd:annotation>
          <xsd:documentation>ISO 8601 format: -MM-
DDThh:hh:mm</xsd:documentation>
        </xsd:annotation>
        <xsd:restriction base="xsd:token">
          <xsd:pattern value="-(((0[13578]-([01-9]|[12][0-9]|3[01]))|(1[02]-
(0[1-9]|[12][0-9]|3[01]))|((0[469]-([01-9]|[12][0-9]|30))|(11-(0[1-9]|[12][0-
9]|30))|(02-(0[1-9]|1[0-9]|2[0-9])))T([0-1][0-9]|2[0-4])\+|\-([0-1][0-9]|2[0-
3]):[0-5][0-9]"/>
        </xsd:restriction>
      </xsd:simpleType>
      <xsd:simpleType name="MonthDayTimeType">
        <xsd:annotation>
          <xsd:documentation>ISO 8601 format: -MM-
DDThh:mm:ss</xsd:documentation>
        </xsd:annotation>
        <xsd:restriction base="xsd:token">
          <xsd:pattern value="--(((0[13578]-([01-9]|[12][0-
9]|3[01]))|(1[02]-([01-9]|[12][0-9]|3[01]))|((0[469]-([01-9]|[12][0-9]|30))|(11-
(0[1-9]|[12][0-9]|30))|(02-(0[1-9]|1[0-9]|2[0-9])))T(((0[1][0-9]|2[0-3]):[0-5][0-
9]:([0-5][0-9]|\.[0-9]+)))|(24:00:00)"/>
        </xsd:restriction>
      </xsd:simpleType>
      <xsd:simpleType name="MonthDayTimeUTCType">
        <xsd:annotation>
          <xsd:documentation>ISO 8601 format: -MM-
DDThh:mm:ssZ</xsd:documentation>
        </xsd:annotation>
        <xsd:restriction base="xsd:token">
          <xsd:pattern value="--(((0[13578]-([01-9]|[12][0-
9]|3[01]))|(1[02]-([01-9]|[12][0-9]|3[01]))|((0[469]-([01-9]|[12][0-9]|30))|(11-
(0[1-9]|[12][0-9]|30))|(02-(0[1-9]|1[0-9]|2[0-9])))T(((0[1][0-9]|2[0-3]):[0-5][0-
9]:([0-5][0-9]|\.[0-9]+)))|(24:00:00)Z"/>
        </xsd:restriction>
      </xsd:simpleType>
      <xsd:simpleType name="MonthDayTimeUTCOffsetType">
        <xsd:annotation>
          <xsd:documentation>ISO 8601 format: -MM-
DDThh:mm:ss+hh:mm</xsd:documentation>
        </xsd:annotation>
        <xsd:restriction base="xsd:token">
          <xsd:pattern value="--(((0[13578]-([01-9]|[12][0-
9]|3[01]))|(1[02]-([01-9]|[12][0-9]|3[01]))|((0[469]-([01-9]|[12][0-9]|30))|(11-
(0[1-9]|[12][0-9]|30))|(02-(0[1-9]|1[0-9]|2[0-9])))T(((0[1][0-9]|2[0-3]):[0-5][0-
9]:([0-5][0-9]|\.[0-9]+)))|(24:00:00)(\+|\-([0-1][0-9]|2[0-3]):[0-5][0-9]"/>
        </xsd:restriction>
      </xsd:simpleType>
      <xsd:simpleType name="WeekDayHourMinuteType">
        <xsd:annotation>
          <xsd:documentation>ISO 8601 format: -Www-
DThh:mm</xsd:documentation>
        </xsd:annotation>
        <xsd:restriction base="xsd:token">
          <xsd:pattern value="-W(0[1-9]|[1-4][0-9]|5[0123])-([1-7])T(((0[1][0-
9]|2[0-3]):[0-5][0-9])|(24:00)"/>
        </xsd:restriction>
      </xsd:simpleType>
      <xsd:simpleType name="WeekDayHourMinuteUTCType">
        <xsd:annotation>
          <xsd:documentation>ISO 8601 format: -Www-
DThh:mmZ</xsd:documentation>
        </xsd:annotation>
        <xsd:restriction base="xsd:token">
          <xsd:pattern value="-W(0[1-9]|[1-4][0-9]|5[0123])-([1-7])T(((0[1][0-
9]|2[0-3]):[0-5][0-9])|(24:00)Z"/>
        </xsd:restriction>
      </xsd:simpleType>
      <xsd:simpleType name="WeekDayHourMinuteUTCOffsetType">
        <xsd:annotation>

```

```

1043      <xsd:documentation>ISO 8601 format: -Www-
1044 DThh:mm+hh:mm</xsd:documentation>
1045     </xsd:annotation>
1046     <xsd:restriction base="xsd:token">
1047       <xsd:pattern value="-W(0[1-9]|[1-4][0-9]|5[0123])-[1-7]T(((01[0-
1048 9]|2[0-3]):[0-5][0-9])|(24:00))(\+|\-)([0-1][0-9]|2[0-3]):[0-5][0-9]"/>
1049     </xsd:restriction>
1050   </xsd:simpleType>
1051   <xsd:simpleType name="WeekDayHourType">
1052     <xsd:annotation>
1053       <xsd:documentation>ISO 8601 format: -Www-DThh</xsd:documentation>
1054     </xsd:annotation>
1055     <xsd:restriction base="xsd:token">
1056       <xsd:pattern value="-W(0[1-9]|[1-4][0-9]|5[0123])-[1-7]T([0-1][0-
1057 9]|2[0-4])"/>
1058     </xsd:restriction>
1059   </xsd:simpleType>
1060   <xsd:simpleType name="WeekDayHourUTCType">
1061     <xsd:annotation>
1062       <xsd:documentation>ISO 8601 format: -Www-DThhZ</xsd:documentation>
1063     </xsd:annotation>
1064     <xsd:restriction base="xsd:token">
1065       <xsd:pattern value="-W(0[1-9]|[1-4][0-9]|5[0123])-[1-7]T([0-1][0-
1066 9]|2[0-4])Z"/>
1067     </xsd:restriction>
1068   </xsd:simpleType>
1069   <xsd:simpleType name="WeekDayHourUTCOffsetType">
1070     <xsd:annotation>
1071       <xsd:documentation>ISO 8601 format: -Www-
1072 DThh+hh:mm</xsd:documentation>
1073     </xsd:annotation>
1074     <xsd:restriction base="xsd:token">
1075       <xsd:pattern value="-W(0[1-9]|[1-4][0-9]|5[0123])-[1-7]T([0-1][0-
1076 9]|2[0-4])(\+|\-)([0-1][0-9]|2[0-3]):[0-5][0-9]"/>
1077     </xsd:restriction>
1078   </xsd:simpleType>
1079   <xsd:simpleType name="WeekDayTimeType">
1080     <xsd:annotation>
1081       <xsd:documentation>ISO 8601 format: -Www-
1082 DThh:mm:ss</xsd:documentation>
1083     </xsd:annotation>
1084     <xsd:restriction base="xsd:token">
1085       <xsd:pattern value="-W(0[1-9]|[1-4][0-9]|5[0123])-[1-7]T(((01[0-
1086 9]|2[0-3]):[0-5][0-9]:([0-5][0-9](|(\.[0-9]+))))|(24:00:00))"/>
1087     </xsd:restriction>
1088   </xsd:simpleType>
1089   <xsd:simpleType name="WeekDayTimeUTCType">
1090     <xsd:annotation>
1091       <xsd:documentation>ISO 8601 format: -Www-
1092 DThh:mm:ssZ</xsd:documentation>
1093     </xsd:annotation>
1094     <xsd:restriction base="xsd:token">
1095       <xsd:pattern value="-W(0[1-9]|[1-4][0-9]|5[0123])-[1-7]T(((01[0-
1096 9]|2[0-3]):[0-5][0-9]:([0-5][0-9](|(\.[0-9]+))))|(24:00:00))Z"/>
1097     </xsd:restriction>
1098   </xsd:simpleType>
1099   <xsd:simpleType name="WeekDayTimeUTCOffsetType">
1100     <xsd:annotation>
1101       <xsd:documentation>ISO 8601 format: -Www-
1102 DThh:mm:ss+hh:mm</xsd:documentation>
1103     </xsd:annotation>
1104     <xsd:restriction base="xsd:token">
1105       <xsd:pattern value="-W(0[1-9]|[1-4][0-9]|5[0123])-[1-7]T(((01[0-
1106 9]|2[0-3]):[0-5][0-9]:([0-5][0-9](|(\.[0-9]+))))|(24:00:00))(\+|\-)([0-1][0-
1107 9]|2[0-3]):[0-5][0-9]"/>
1108     </xsd:restriction>
1109   </xsd:simpleType>
1110   <xsd:simpleType name="YearDayHourMinuteType">
1111     <xsd:annotation>
1112       <xsd:documentation>ISO 8601 format: YYYY-
1113 DDDThh:mm</xsd:documentation>
1114     </xsd:annotation>
1115     <xsd:restriction base="xsd:token">

```



```

11      <xsd:pattern
12      value="([13579][26][02468][048]|[13579][01345789](0)[48]|[13579][01345789][2468][04
13      8]|[02468][048][02468][048]|[02468][1235679](0)[48]|[02468][1235679][2468][048]|[0-
14      9][0-9][13579][26])-(00[1-9])|(0[1-9][0-9])|([1-2][0-9][0-9])|(3[0-5][0-9])|(36[0-
15      6]))T([0-1][0-9]|2[0-4])Z"/>
16      <xsd:pattern
17      value="([13579][26][02468][1235679]|[13579][01345789](0)[01235679]|[13579][01345789
18      ][2468][1235679]|[02468][048][02468][1235679]|[02468][1235679](0)[01235679]|02468
19      [1235679][2468][1235679]|[0-9][0-9][13579][01345789])-(00[1-9])|(0[1-9][0-9])|([1-
20      2][0-9][0-9])|(3[0-5][0-9])|(36[0-5]))T([0-1][0-9]|2[0-4])Z"/>
21      </xsd:restriction>
22      </xsd:simpleType>
23      <xsd:simpleType name="YearDayHourUTCOffsetType">
24      <xsd:annotation
25      <xsd:documentation>ISO 8601 format: YYYY-
26      DDDThh+hh:mm</xsd:documentation>
27      </xsd:annotation>
28      <xsd:restriction base="xsd:token">
29      <xsd:pattern
30      value="([13579][26][02468][048]|[13579][01345789](0)[48]|[13579][01345789][2468][04
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34      <xsd:pattern
35      value="([13579][26][02468][1235679]|[13579][01345789](0)[01235679]|[13579][01345789
36      ][2468][1235679]|[02468][048][02468][1235679]|[02468][1235679](0)[01235679]|02468
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38      2][0-9][0-9])|(3[0-5][0-9])|(36[0-5]))T([0-1][0-9]|2[0-4])([+|-]([0-1][0-9]|2[0-
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40      </xsd:restriction>
41      </xsd:simpleType>
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45      DDDThh:mm:ss</xsd:documentation>
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53      <xsd:pattern
54      value="([13579][26][02468][1235679]|[13579][01345789](0)[01235679]|[13579][01345789
55      ][2468][1235679]|[02468][048][02468][1235679]|[02468][1235679](0)[01235679]|02468
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58      9])([\.([0-9]+))))|(24:00:00))"/>
59      </xsd:restriction>
60      </xsd:simpleType>
61      <xsd:simpleType name="YearDayTimeUTCType">
62      <xsd:annotation
63      <xsd:documentation>ISO 8601 format: YYYY-
64      DDDThh:mm:ssZ</xsd:documentation>
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75      [1235679][2468][1235679]|[0-9][0-9][13579][01345789])-(00[1-9])|(0[1-9][0-9])|([1-
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78      </xsd:restriction>
79      </xsd:simpleType>
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    <xsd:pattern
value="([13579][26][02468][048]|[13579][01345789](0)[48]|[13579][01345789][2468][04
8]|[02468][048][02468][048]|[02468][1235679](0)[48]|[02468][1235679][2468][048]|[0-
9][0-9][13579][26])-(00[1-9])|(0[1-9][0-9])|([1-2][0-9][0-9])|(3[0-5][0-9])|(36[0-
6]))T(((0[1][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9])|(\.[0-9]+)))|(24:00:00)([+|-
]([0-1][0-9]|2[0-3]):[0-5][0-9])"/>
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][2468][1235679]|[02468][048][02468][1235679]|[02468][1235679](0)[01235679]|[02468
][1235679][2468][1235679]|[0-9][0-9][13579][01345789])-(00[1-9])|(0[1-9][0-9])|([1-
2][0-9][0-9])|(3[0-5][0-9])|(36[0-5]))T(((0[1][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-
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        <xsd:pattern value="[0-9]{4}-W(0[1-9]|[1-4][0-9]|5[0123])-[1-
7]T(((0[1][0-9]|2[0-3]):[0-5][0-9])|(24:00))"/>
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    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="YearWeekDayTimeType">

```


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