



UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

United Nations Centre for Trade Facilitation and Electronic
Business (UN/CEFACT)

1

2

3

4

5

6

7

UN/CEFACT

XML Naming and Design Rules Technical Specification

Version 3.0

Technical Corrigendum 1

10

11

12

13

14

15

10 December 2010

16

17

18

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.

Table of Contents

29	Abstract	2
30	Table of Contents	3
31	1 Status of This Document.....	4
32	2 Technical Corrigenda 1 Project Team Participants	5
33	2.1 Disclaimer	5
34	2.2 Contact Information	5
35	3 Corrections	6
36	3.1 References to UN/CEFACT Data Type Catalogue Version 3.0..	6
37	3.1.1 Section 5.7.4 XML Schema Built-in Type Extension XML Schema File	6
39	3.1.1.1 Current.....	6
40	3.1.1.2 Corrected.....	6
41	3.1.2 Rule 9CDD	7
42	3.1.2.1 Current.....	7
43	3.1.2.2 Corrected.....	7
44	3.2 Appendix J Date. Type, DateTime. Type and Time. Type Data Type Representations and Their Translation to XML Schema Types..	7
46	3.2.1 Current.....	7
47	3.2.2 Corrected.....	7
48	4 Copyright Statement	43

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.

2 Technical Corrigenda 1 Project Team Participants

We would like to recognize the following for their significant participation in the development of *this United Nations Centre For Trade Facilitation and Electronic Business (UN/CEFACT) XML Naming and Design Rules* technical specification corrigenda.

ATG2 Chair

Jostein Frømyr EdiSys Consulting AS

Project Team Leader

Mark Crawford SAP Labs LLC (U.S.)

Lead Editor

Michael Rowell Oracle Corporation/OAGi

Contributors

Serge Cayron ACORD

David Connelly OAGi

Scott Hinkelman Oracle Corporation

Kevin Smith Cloud Data Technologies

2.1 Disclaimer

The views and specification expressed in this technical specification are those of the authors and are not necessarily those of their employers. The authors and their employers specifically disclaim responsibility for any problems arising from correct or incorrect implementation or use of this technical specification.

2.2 Contact Information

ATG2 – Jostein Frømyr, EdiSys Consulting AS, Jostein.Fromyr@edisys.no

NDR Project Lead – Mark Crawford, SAP Labs LLC (U.S.), mark.crawford@sap.com

Lead Editor – Michael Rowell, Oracle Corporation, michael.rowell@oracle.com

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.

3.1 References to UN/CEFACT Data Type Catalogue Version 3.0

3.1.1 Section 5.7.4 XML Schema Built-in Type Extension XML Schema File

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:complexTypes. 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.

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:complexTypes. 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 Version 3.0</i> .	1
----------	--	---

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 Version 3.0 or later</i> .	1
----------	---	---

113 **3.2 Appendix J Date. Type, DateTime. Type and Time. Type Data Type Representations and Their Translation to XML Schema 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 to Date. Type, DateTime. Type and Time. Type representations.

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

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

128 Each package implementation that defines a BDT XML Schema File will useing the appropriate XML Schema base-type from the common XBT XML Schema File that is applicable to the BDT using the translation tables Table J-1 for Date. Type, Table J-2 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 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	[0-9]{4}- <u>(0[13578][1 02])-(0[1-9][12 0-9][3 01]) ([0-9]{4})-</u> <u>((0[469])(11))-(0[1-9][12 0-9][30])</u> [13579][26][02468][048][13579][01345789][048][02468][048][02468][048][02468][1235679][0 48][02468][1235679][2468][048][0-9][0-9][13579][26]- <u>(02)-(0[1-9] 1[0-9] 2[0-9])</u> [13579][26][02468][1235679][13579][01345789][0 48][01235679][13579][01345789][2468][1235679][02468][048][02468][1235679][0 48][02468][1235679][2468][1235679][0-9][0-9][13579][01345789]- <u>(02)-(0[1-9] 1[0-9] 2[0-8])</u>
YYYY-MM		YearMonthType	xsd:gYearMonth	[0-9]{4}- <u>(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]-<u>(0[1-9] 1[0-9][3 01]) ((1 02)-<u>(0[1-9] 1[0-9][3 01])) ((0[469]-<u>(0[1-9] 1[0-9][30])) ((11-<u>(0[1-9] 1[0-9][30)))) ((02-<u>(0[1-9] 1[0-9] 2[0-9])))</u></u></u></u></u></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	[13579][26][02468][048][13579][01345789][048][13579][01345789][2468][048][02468][048][02468][048][02468][1235679][0 48][02468][1235679][2468][048][0-9][0-9][13579][26]- <u>((00 1-9) (0[1-9] 0-9) (1-2)[0-9] (3 0-5)[0-9]) (36 0-6))</u> [13579][26][02468][1235679][13579][01345789][0 48][01235679][13579][01345789][2468][1235679][02468][048][02468][1235679][0 48][02468][1235679][2468][1235679][0-9][0-9][13579][01345789]- <u>((00 1-9) (0[1-9] 0-9) (1-2)[0-9] (3 0-5)[0-9]) (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	[0-9]{4}-W <u>(0[1-9] 1-4)[0-9] 5[0123])-1-7</u>
-Www-D		WeekDayType	xsd:token	-W <u>(0[1-9] 1-4)[0-9] 5[0123])-1-7</u>
YYYY-Www		YearWeekType	xsd:token	[0-9]{4}-W <u>(0[1-9] 1-4)[0-9] 5[0123])</u>
-Www		WeekType	xsd:token	-W <u>(0[1-9] 1-4)[0-9] 5[0123])</u>
-W-D		DayOfWeekType	xsd:token	-W-[1-7]
<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 known 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="clm6XXXX1:DateFormatCodeContentType" use="optional">
147       ...
148       </xsd:attribute>
149     </xsd:simpleType>
150   ...
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	<u>[Note:] – Conventions on time formats:</u>
158	<u>Second decimals are allowed and optional. All types that include seconds also include second decimals.</u>
160	<u>UTC and UTCOffsetZulu time types are only available for all hh:mm:ss formattypes that include hours.</u>
161	
162	<u>[Note:] – No Support for Leap Second:</u>
163	<u>While ISO 8601 does support Leap Seconds, the W3C XML Schema</u>
164	<u>Recommendation 1.0 does not support Leap Second. In order to make use of the</u>
165	<u>applicable XML Schema time types, Leap Seconds are not supported by the XBT</u>
166	<u>XML Schema.</u>
167	<u>[Note:] – Representation of Midnight:</u>
168	<u>Both ISO 8601 and W3C XML Schema Recommendation 1.0 support both 00:00</u>
169	<u>and 24:00 for midnight, where 00:00 is considered the beginning of the new day and</u>
170	<u>24:00 is considered the end of the day. The NDR supports both of these</u>
171	<u>representations. It is important to note that through our testing 00:00 is the more</u>
172	<u>widely accepted format by tooling.</u>

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	([[01][0-9][2[0-3]):[0-5][0-9]:([0-5][0-9][((.[0-9]+)))](24:00:00))
hh:mm:ssZ		TimeUTCType	xsd:time	([[01][0-9][2[0-3]):[0-5][0-9]:([0-5][0-9][((.[0-9]+)))](24:00:00))Z
hh:mm:ss±hh:mm		Time UTCOffset Type	xsd:time	([[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])
hh:mm		HourMinuteType	xsd:token	([[01][0-9][2[0-3]):[0-5][0-9]])(24:00)
hh:mmZ		HourMinuteUTCType	xsd:token	([[01][0-9][2[0-3]):[0-5][0-9]])(24:00)Z
hh:mm±hh:mm		HourMinuteUTCOffsetType	xsd:token	([[01][0-9][2[0-3]):[0-5][0-9]])(24:00)(+[\\-]([0-1][0-9][2[0-3]):[0-5][0-9]))
hh		HourType	xsd:token	([0-1][0-9][2[0-4)])
hhZ		HourUTCType	xsd:token	([0-1][0-9][2[0-4)])Z
hh±hh:mm		HourUTCOffsetType	xsd:token	([0-1][0-9][2[0-4])(+[\\-]([0-1][0-9][2[0-3]):[0-5][0-9]))
-mm:ss		MinuteSecondType	xsd:token	-[0-5][0-9]:[0-5][0-9][((.[0-9]+))]
-mm		MinuteType	xsd:token	-[0-5][0-9]

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 formattypes
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.

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
YYYY-MM-DDThh:mm:ss	true	DateTimeType	xsd:dateTim e	<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 0-3]):[0-5][0-9]:([0-5][0-9] (\.[0-9]+))) (24:00:00))</p> <p>([13579][26][02468][048][13579][01345789][2468][048][02468][048][02468][048][02468][1235679](0)[48][02468][048][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))</p> <p>([13579][26][02468][048][13579][01345789][2468][048][02468][048][02468][048][02468][1235679](0)[48][02468][048][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))</p>
YYYY-MM-DDThh:mm:ssZ		DateTimeUTCType	xsd:dateTim e	<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 0-3]):[0-5][0-9]:([0-5][0-9] (\.[0-9]+))) (24:00:00))Z</p> <p>([13579][26][02468][048][13579][01345789][2468][048][02468][048][02468][048][02468][1235679](0)[48][02468][048][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</p> <p>([13579][26][02468][048][13579][01345789][2468][048][02468][048][02468][048][02468][1235679](0)[48][02468][048][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</p>

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
YYYY-MM-DDThh:mm:ss <u>±hh</u> :mm		DateTime UTCOffsetType	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(([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][048][13579][01345789][2468][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])</p> <p>([13579][26][02468][1235679][13579][01345789](0)[01235679][13579][01345789][2468][1235679][02468][048][02468][1235679][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]:([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(([01][0-9][2 0-3]):[0-5][0-9])(24:00)</p> <p>([13579][26][02468][048][13579][01345789][048][13579][01345789][2468][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)</p> <p>([13579][26][02468][1235679][13579][01345789](0)[01235679][13579][01345789][2468][1235679][02468][048][02468][1235679][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)</p>

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
<u>YYYY-MM-DDThh:mmZ</u>		<u>DateHourMinuteUTCType</u>	<u>xsd:token</u>	<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][3 0])T(([01][0-9][2 0-3]):[0-5][0-9]) (24:00)Z</p> <p>([13579][26][02468][048][13579][01345789][2468][048][02468][048][02468][1235679](0)[48][02468][1235679][2468][048][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</p> <p>([13579][26][02468][1235679][13579][01345789](0)[01235679][13579][01345789][2468][1235679][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</p>
<u>YYYY-MM-DDThh:mm±hh:mm</u>		<u>DateHourMinuteUTCOFFsetType</u>	<u>xsd:token</u>	<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][3 0])T(([01][0-9][2 0-3]):[0-5][0-9]) (24:00)(\+ \-)([0-1][0-9][2 0-3]):[0-5][0-9])</p> <p>([13579][26][02468][048][13579][01345789][2468][048][02468][048][02468][1235679](0)[48][02468][1235679][2468][048][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])</p> <p>([13579][26][02468][1235679][13579][01345789](0)[01235679][13579][01345789][2468][1235679][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])</p>

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

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
<u>YYYY-MM-DDThh:mm:ss</u>		<u>DateHourUTCOffsetType</u>	xsd:token	((([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]) ((13579)[26] 02468 [048] 13579 [01345789](0) 48) 13579 [01345789][02468 [048] 02468 [048] 02468 [1235679](0) 48) 02468 [1235679] 2468 [048] 09 [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]) ((13579)[26] 02468 [1235679] 13579 [01345789](0) 01235679 [13579] 01345789 [2468] 1235679 [02468] 02468 [02468] 1235679 [01235679] 02468 [1235679](0) 01235679) [02468] 1235679 [0-9] 13579 [01345789])-02)-(0[1-9] 1[0-9] 1[0-9] 2[0-8]))T(([01][0-9]) (2[0-4]))(+ - ([0-1][0-9] 2[0-3]):[0-5][0-9])
--MM-DDThh:mm:ss		MonthDayTimeType	xsd:token	-(([013578]-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	-(([013578]-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 <u><u>±hh:mm</u></u>		MonthDayTimeUTCOFFsetType	xsd:token	-(([013578]-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]-[01-9][12][0-9][3[01])) (1[02]-[01-9][12][0-9][3[01])) ((0[469]-[01-9][12][0-9][3[01)))) (11-(0[1-9][12][0-9][3[01)) (02-(0[1-9][10-9][2[0-9))))T(((01)[0-9][2[0-3]):[0-5][0-9])) (24:00))
<u>--MM-DDThh:mmZ</u>		<u>MonthDayHourMinuteUTCType</u>	<u>xsd:token</u>	--((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][3[01)))) (11-(0[1-9][12][0-9][3[01)) (02-(0[1-9][10-9][2[0-9))))T(((01)[0-9][2[0-3]):[0-5][0-9])) (24:00)Z
<u>--MM-DDThh:mm±hh:mm</u>		<u>MonthDayHourMinuteUTCOffsetType</u>	<u>xsd:token</u>	--((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][3[01)))) (11-(0[1-9][12][0-9][3[01)) (02-(0[1-9][10-9][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])
--MM-DDThh		MonthDayHourType	xsd:token	--((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][3[01)))) (11-(0[1-9][12][0-9][3[01)) (02-(0[1-9][10-9][2[0-9))))T([0-1][0-9][2[0-4]))
<u>--MM-DDThhZ</u>		<u>MonthDayHourUTCType</u>	<u>xsd:token</u>	--((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][3[01)))) (11-(0[1-9][12][0-9][3[01)) (02-(0[1-9][10-9][2[0-9))))T([0-1][0-9][2[0-4))Z
<u>--MM-DDThh±hh:mm</u>		<u>MonthDayHourUTCOffsetType</u>	<u>xsd:token</u>	--((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][3[01)))) (11-(0[1-9][12][0-9][3[01)) (02-(0[1-9][10-9][2[0-9))))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])) (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])) (24:00:00))Z

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

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
YYYY- DDDThh:mm:ssZ		YearDayTimeUTCType	xsd:token	<p>([13579][26][02468][048][13579][0 1345789](0)[48][13579][01345789][2468][048][02468][048][02468][0 48][02468][1235679](0)[48][0246 8][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][135 79][01345789](0)[01235679][1357 9][01345789][2468][1235679][024 68][048][02468][1235679][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]:([0-5][0-9]:([\\.[0- 9]+))))(24:00:00))Z</p>
YYYY- DDDThh:mm:ss <u>±h</u> <u>h:mm</u>		YearDayTime UTC <u>OffsetType</u>	xsd:token	<p>([13579][26][02468][048][13579][0 1345789](0)[48][13579][01345789][2468][048][02468][048][02468][0 48][02468][1235679](0)[48][0246 8][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][135 79][01345789](0)[01235679][1357 9][01345789][2468][1235679][024 68][048][02468][1235679][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]:([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- DDDThh:mm		YearDayHourMinut eType	xsd:token	<p>([13579][26][02468][048][13579][0 1345789](0)[48][13579][01345789][2468][048][02468][048][02468][0 48][02468][1235679](0)[48][0246 8][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][135 79][01345789](0)[01235679][1357 9][01345789][2468][1235679][024 68][048][02468][1235679][02468][1235679](0)[01235679][02468][12 35679][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>
<u>YYYY- DDDThh:mmZ</u>		<u>YearDayHourMinut eUTCType</u>	<u>xsd:token</u>	<p>([13579][26][02468][048][13579][0 1345789](0)[48][13579][01345789][2468][048][02468][048][02468][0 48][02468][1235679](0)[48][0246 8][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][135 79][01345789](0)[01235679][1357 9][01345789][2468][1235679][024 68][048][02468][1235679][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>DDDThh:mm±hh:</u> <u>mm</u>		<u>YearDayHourMinut</u> <u>eUTCOffsetType</u>	<u>xsd:token</u>	([13579][26][02468][048][13579][0 1345789](0)[48][13579][01345789][2468][048][02468][048][02468][0 48][02468][1235679](0)[48][0246 8][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))(\+\-\)([0-1][0- 9][2[0-3]):[0-5][0-9]) ([13579][26][02468][1235679][135 79][01345789](0)[01235679][1357 9][01345789][2468][1235679][024 68][048][02468][1235679][02468][1235679](0)[01235679][02468][12 35679][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))(\+\-\)([0-1][0-9][2[0-3]):[0-5][0-9])
YYYY-DDDThh		YearDayHourType	xsd:token	([13579][26][02468][048][13579][0 1345789](0)[48][13579][01345789][2468][048][02468][048][02468][0 48][02468][1235679](0)[48][0246 8][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[0-4]) ([13579][26][02468][1235679][135 79][01345789](0)[01235679][1357 9][01345789][2468][1235679][024 68][048][02468][1235679][02468][1235679](0)[01235679][02468][12 35679][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[0-4]))

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
<u>YYYY-DDDThhZ</u>		<u>YearDayHourUTCType</u>	<u>xsd:token</u>	([[13579][26][02468][048][[13579][01345789][0][48][13579][01345789][1][2468][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[0-4))Z ([[13579][26][02468][1235679][1][13579][01345789][0][01235679][1][13579][01345789][2468][1235679][1][02468][048][02468][1235679][0][01235679][1][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[0-4))Z
<u>YYYY-DDDThh±hh:mm</u>		<u>YearDayHourUTCOffsetType</u>	<u>xsd:token</u>	([[13579][26][02468][048][[13579][01345789][0][48][13579][01345789][1][2468][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[0-4)) <u>([+ -]([0-1][0-9][2[0-3]):[0-5][0-9])</u> ([[13579][26][02468][1235679][1][13579][01345789][0][01235679][1][13579][01345789][2468][1235679][1][02468][048][02468][1235679][0][01235679][1][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[0-4)) <u>([+ -]([0-1][0-9][2[0-3]):[0-5][0-9])</u>
-DDDThh:mm:ss		DayOfYearTimeType	xsd:token	<u>-((00[1-9])(0[1-9][0-9])([1-2][0-9][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>
-DDDT <u>hh:mm:ssZ</u>		DayOfYearTimeUTCType	xsd:token	<u>-((00[1-9])(0[1-9][0-9])([1-2][0-9][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
- DDDThh:mm:ss <u>±h: h:mm</u>		DayOfYearTime _{UT COffsetType}	xsd:token	-((0[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]) ([0-5][0-9]):([0-5][0-9]):([0-5][0-9]) ([24:00:00)) ([+ -]([0-1][0-9] 2[0-3]):[0-5] 0-9)
-DDDThh:mm		DayOfYearHourMinuteType	xsd:token	-((0[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>-DDDThh:mmZ</u>		<u>DayOfYearHourMinuteUTCType</u>	xsd:token	-((0[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>DDDThh:mm±hh: mm</u>		<u>DayOfYearHourMinuteUTCOffsetType</u>	xsd:token	-((0[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)
-DDDThh		DayOfYearHourType	xsd:token	-((0[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>-DDDThhZ</u>		<u>DayOfYearHourUTCType</u>	xsd:token	-((0[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>-DDDThh±hh:mm</u>		<u>DayOfYearHourUTCOffsetType</u>	xsd:token	-((0[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))
YYYY-Www- DThh:mm:ss		YearWeekDayTime Type	xsd:token	[0-9]{4}-W(0[1-9] 1[4-9] 0-9) [5[0123]]-[1-7]T (([01][0-9] 2[0-3]):[0-5] 0-9):([0-5][0-9]):([0-5][0-9]):([0-5][0-9])) (24:00:00))
YYYY-Www- DThh:mm:ssZ		YearWeekDayTime UTCType	xsd:token	[0-9]{4}-W(0[1-9] 1[4-9] 0-9) [5[0123]]-[1-7]T (([01][0-9] 2[0-3]):[0-5] 0-9):([0-5][0-9]):([0-5][0-9]):([0-5][0-9])) (24:00:00))Z
YYYY-Www- DThh:mm:ss <u>±hh: mm</u>		YearWeekDayTime UTCOffsetType	xsd:token	[0-9]{4}-W(0[1-9] 1[4-9] 0-9) [5[0123]]-[1-7]T (([01][0-9] 2[0-3]):[0-5] 0-9):([0-5][0-9]):([0-5][0-9]):([0-5][0-9])) (24:00:00)) ([+ -]([0-1][0-9] 2[0-3]):[0-5] 0-9))
YYYY-Www- DThh:mm		YearWeekDayHour MinuteType	xsd:token	[0-9]{4}-W(0[1-9] 1[4-9] 0-9) [5[0123]]-[1-7]T (([01][0-9] 2[0-3]):[0-5] 0-9) (24:00))

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>	[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))Z
<u>YYYY-Www-DThh:mm±hh:mm</u>		<u>YearWeekDayHourMinuteUTCOffsetType</u>	<u>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))(\+ \-)([0-1][0-9][2[0-3]):[0-5][0-9])
YYYY-Www-DThh		YearWeekDayHourType	xsd:token	[0-9]{4}-W(0[1-9][1-4][0-9][5[0123))-1-7T([0-1][0-9][2[0-4])
<u>YYYY-Www-DThhZ</u>		<u>YearWeekDayHourUTCType</u>	<u>xsd:token</u>	[0-9]{4}-W(0[1-9][1-4][0-9][5[0123))-1-7T([0-1][0-9][2[0-4))Z
<u>YYYY-Www-DThh±hh:mm</u>		<u>YearWeekDayHourUTCOffsetType</u>	<u>xsd:token</u>	[0-9]{4}-W(0[1-9][1-4][0-9][5[0123))-1-7T([0-1][0-9][2[0-4))\+ \-)([0-1][0-9][2[0-3]):[0-5][0-9])
-Www-DThh:mm:ss		WeekDayTimeType	xsd:token	-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))
-Www-DThh:mm:ssZ		WeekDayTimeUTCType	xsd:token	-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
-Www-DThh:mm:ss±hh:mm		WeekDayTime UTC OffsetType	xsd:token	-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])
-Www-DThh:mm		WeekDayHourMinuteType	xsd:token	-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>-Www-DThh:mmZ</u>		<u>WeekDayHourMinuteUTCType</u>	<u>xsd:token</u>	-W(0[1-9][1-4][0-9][5[0123))-1-7T(([01][0-9][2[0-3]):[0-5][0-9])(24:00))Z
<u>-Www-DThh:mm±hh:mm</u>		<u>WeekDayHourMinuteUTCOffsetType</u>	<u>xsd:token</u>	-W(0[1-9][1-4][0-9][5[0123))-1-7T(([01][0-9][2[0-3]):[0-5][0-9])(24:00))(\+ \-)([0-1][0-9][2[0-3]):[0-5][0-9])
-Www-DThh		WeekDayHourType	xsd:token	-W(0[1-9][1-4][0-9][5[0123))-1-7T([0-1][0-9][2[0-4])
<u>-Www-DThhZ</u>		<u>WeekDayHourUTCType</u>	<u>xsd:token</u>	-W(0[1-9][1-4][0-9][5[0123))-1-7T([0-1][0-9][2[0-4))Z

ISO 8601 Format Code	Default Indicator	xbt: Base Type	xsd: Base Type	Pattern restriction
<u>-Www-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	<u>-W-[1-7]T(((01)[0-9][2[0-3]):[0-5][0-9]:([0-5][0-9 ([.\.\0-9+))))(24:00:00))</u>
-W-DThh:mm:ssZ		DayOfWeekTimeUTCType	xsd:token	<u>-W-[1-7]T(((01)[0-9][2[0-3]):[0-5][0-9]:([0-5][0-9 ([.\.\0-9+))))(24:00:00))Z</u>
<u>-W-DThh:mm:ss±hh:mm</u>		DayOfWeekTimeUTCOffsetType	xsd:token	<u>-W-[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>
-W-DThh:mm		DayOfWeekHourMinuteType	xsd:token	<u>-W-[1-7]T(((01)[0-9][2[0-3]):[0-5][0-9])(24:00))</u>
<u>-W-DThh:mmZ</u>		<u>DayOfWeekHourMinuteUTCType</u>	<u>xsd:token</u>	<u>-W-[1-7]T(((01)[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(((01)[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	<u>-W-[1-7]T([0-1][0-9][2[0-4])</u>
<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] 1[2][0-9] 3[01]) ([0-9]{4})-((0[469]) (11))-(0[1-9] 1[2][0-9] 30) 13579 [26][02468][048] 13579 [01345789][2468][048] 02468 [02468][1235679](0)[48] 02468 [1235679][2468][048] 0-9 [13579][26])-((0[1-9] 1[0-9])[2[0-9]) ([13579][26][02468][1235679]) 13579 [01345789](0) 01235679 [13579][01345789][2468] 1235679 [02468][048] 02468 [1235679](0) 01235679 [02468][1235679][048] 1235679 [02468][1235679][2468] 1235679 [0-9] 13579 [01345789]-((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][3[01])) (1[02]-0[1-9][12][0-9][3[01]))))((0[469]-(0[1-9][12][0-9][3[0])) (11-(0[1-9][12][0-9][3[0)))) (02-(0[1-9][1[0-9][2[0-9]))))
---DD		DayType	xsd:gDay	---(0[1-9][12][0-9][3[01])
YYYY-DDD		YearDayType	xsd:token	([13579][26][02468][048][13579][01345789][2468][048][02468][048][02468][048][02468][1235679](0)[48][02468][1235679][01345789][2468][048][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]))([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][0-9]) (3[0-5][0-9]) (36[0-5]))
-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 <===== Duration types =====>
205 <===== Duration types =====>
206 <===== Duration types =====>
207 <xsd:simpleType name="WeekDurationType">
208   <xsd:annotation>
209     <xsd:documentation>ISO 8601 format: nW</xsd:documentation>
210   </xsd:annotation>
```

```

211
212         <xsd:restriction base="xsd:token">
213             <xsd:pattern value="\d+W"/>
214         </xsd:restriction>
215     </xsd:simpleType>
216     <!--===== Date types =====-->
217     <!--=====-->
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})-(0[13578]|1[02])-(0[1-9]|1[12][0-
232             9]|3[01])|([0-9]{4})-((0[469])|(11))-(0[1-9]|1[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][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]|1[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]|1[12][0-
275                 9]|3[01]))|(1[02]-((0[1-9]|1[12][0-9]|3[01]))))|((0[469]-((0[1-9]|1[12][0-9]|30))|(11-
276                 (0[1-9]|1[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>

```

```

287 <xsd:simpleType name="WeekType">
288   <xsd:annotation>
289     <xsd:documentation>ISO 8601 format: -Www</xsd:documentation>
290   </xsd:annotation>
291   <xsd:restriction base="xsd:token">
292     <xsd:pattern value="-W(0[1-9]|1-4)[0-9]|5[0123])"/>
293   </xsd:restriction>
294 </xsd:simpleType>
295 <xsd:simpleType name="WeekDayType">
296   <xsd:annotation>
297     <xsd:documentation>ISO 8601 format: -Www-D</xsd:documentation>
298   </xsd:annotation>
299   <xsd:restriction base="xsd:token">
300     <xsd:pattern value="-W(0[1-9]|1-4)[0-9]|5[0123])-1-7"/>
301   </xsd:restriction>
302 </xsd:simpleType>
303 <xsd:simpleType name="YearDayType">
304   <xsd:annotation>
305     <xsd:documentation>ISO 8601 format: YYYY-DDD</xsd:documentation>
306   </xsd:annotation>
307   <xsd:restriction base="xsd:token">
308     <xsd:pattern>
309       value="([13579][26][02468][048|[13579][01345789](0)[48|[13579][01345789][2468][04
310     8|[02468][048|[02468][048|[02468][1235679](0)[48|[02468][1235679][2468][048|[0-
311     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-
312     6]))"/>
313     <xsd:pattern
314       value="([13579][26][02468][1235679|[13579][01345789](0)[01235679][13579][01345789
315     ][2468][1235679|[02468][02468][1235679|[02468][1235679](0)[01235679][02468
316     [1235679][2468][1235679][0-9][0-9|[13579][01345789))-((00[1-9])|(0[1-9][0-9])|([1-
317     2][0-9][0-9])|(3[0-5][0-9])|(36[0-5]))"/>
318   </xsd:pattern>
319 </xsd:simpleType>
320 <xsd:simpleType name="YearMonthType">
321   <xsd:annotation>
322     <xsd:documentation>ISO 8601 format: YYYY-MM</xsd:documentation>
323   </xsd:annotation>
324   <xsd:restriction base="xsd:gYearMonth">
325     <xsd:pattern value="[0-9]{4}-(0[1-9]|1[012]) "/>
326   </xsd:restriction>
327 </xsd:simpleType>
328 <xsd:simpleType name="YearType">
329   <xsd:annotation>
330     <xsd:documentation>ISO 8601 format: YYYY</xsd:documentation>
331   </xsd:annotation>
332   <xsd:restriction base="xsd:gYear">
333     <xsd:pattern value="[0-9]{4} "/>
334   </xsd:restriction>
335 </xsd:simpleType>
336 <xsd:simpleType name="YearWeekType">
337   <xsd:annotation>
338     <xsd:documentation>ISO 8601 format: YYYY-Www</xsd:documentation>
339   </xsd:annotation>
340   <xsd:restriction base="xsd:token">
341     <xsd:pattern value="[0-9]{4}-W(0[1-9]|1-4)[0-9]|5[0123])"/>
342   </xsd:restriction>
343 </xsd:simpleType>
344 <xsd:simpleType name="YearWeekDayType">
345   <xsd:annotation>
346     <xsd:documentation>ISO 8601 format: YYYY-Www-D</xsd:documentation>
347   </xsd:annotation>
348   <xsd:restriction base="xsd:token">
349     <xsd:pattern value="[0-9]{4}-W(0[1-9]|1-4)[0-9]|5[0123])-1-7"/>
350   </xsd:restriction>
351 </xsd:simpleType>
352 <!--=====
353 <===== Time types =====>
354 <===== =====>
355 <xsd:simpleType name="HourMinuteType">
356   <xsd:annotation>
357     <xsd:documentation>ISO 8601 format: hh:mm</xsd:documentation>
358   </xsd:annotation>
359   <xsd:restriction base="xsd:token">
360     <xsd:pattern value="(([01][0-9]|2[0-3]):[0-5][0-9])|(24:00)"/>
361   </xsd:restriction>
362 </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>
```

```

439 <xsd:simpleType name="TimeUTCType">
440   <xsd:annotation>
441     <xsd:documentation>ISO 8601 format: hh:mm:ssZ</xsd:documentation>
442   </xsd:annotation>
443   <xsd:restriction base="xsd:time">
444     <xsd:pattern value="(([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-
445 9]|([.\[0-9]+))|(24:00:00))Z"/>
446   </xsd:restriction>
447 </xsd:simpleType>
448 <xsd:simpleType name="TimeUTCOffsetType">
449   <xsd:annotation>
450     <xsd:documentation>ISO 8601 format:
451 hh:mm:ss+hh:mm</xsd:documentation>
452   </xsd:annotation>
453   <xsd:restriction base="xsd:time">
454     <xsd:pattern value="(([01][0-9]|2[0-3]):[0-5][0-9]:[0-5][0-
455 9]|([.\[0-9]+))|(24:00:00))([\+\-\[\0-1\]\0-9]\2[0-3]):[0-5][0-9])"/>
456   </xsd:restriction>
457 </xsd:simpleType>
458 <!--===== DateTime types =====-->
459 <!--===== DateHourMinuteType >
460 <xsd:simpleType name="DateHourMinuteType">
461   <xsd:annotation>
462     <xsd:documentation>ISO 8601 format: YYYY-MM-
463 DDThh:mm</xsd:documentation>
464   </xsd:annotation>
465   <xsd:restriction base="xsd:token">
466     <xsd:pattern value="(([0-9]{4})-(0[13578]|1[02])-([01-9]|12)[0-
467 9]|3[01]))|([0-9]{4})-((0[469])|(11))-([01-9]|12)[0-9]|30)T(([01][0-9]|2[0-3]):[0-
468 5][0-9])|(24:00)"/>
469   <xsd:pattern
470     value="([13579][26][02468][048][13579][01345789](0)[48][13579][01345789][2468][04-
471 8][02468][048][02468][048][02468][1235679](0)[48][02468][1235679][2468][048][0-
472 9][0-9][13579][26])-([02]-([01-9]|1[0-9]|2[0-9])T(([01][0-9]|2[0-3]):[0-5][0-
473 9]))|(24:00)"/>
474   <xsd:pattern
475     value="([13579][26][02468][1235679][13579][01345789](0)[01235679][13579][01345789][2468][04-
476 8][02468][048][02468][048][02468][1235679](0)[48][02468][1235679][2468][048][0-
477 9][0-9][13579][26])-([02]-([01-9]|1[0-9]|2[0-9])T(([01][0-9]|2[0-3]):[0-5][0-
478 9]))|(24:00)"/>
479   </xsd:restriction>
480 </xsd:simpleType>
481 <xsd:simpleType name="DateHourMinuteUTCType">
482   <xsd:annotation>
483     <xsd:documentation>ISO 8601 format: YYYY-MM-
484 DDThh:mmZ</xsd:documentation>
485   </xsd:annotation>
486   <xsd:restriction base="xsd:token">
487     <xsd:pattern value="(([0-9]{4})-(0[13578]|1[02])-([01-9]|12)[0-
488 9]|3[01]))|([0-9]{4})-((0[469])|(11))-([01-9]|12)[0-9]|30)T(((01)[0-9]|2[0-
489 3]):[0-5][0-9])|(24:00))Z"/>
490   <xsd:pattern
491     value="([13579][26][02468][048][13579][01345789](0)[48][13579][01345789][2468][04-
492 8][02468][048][02468][048][02468][1235679](0)[48][02468][1235679][2468][048][0-
493 9][0-9][13579][26])-([02]-([01-9]|1[0-9]|2[0-9])T(((01)[0-9]|2[0-3]):[0-5][0-
494 9]))|(24:00))Z"/>
495   <xsd:pattern
496     value="([13579][26][02468][1235679][13579][01345789](0)[01235679][13579][01345789][2468][04-
497 8][02468][048][02468][048][02468][1235679](0)[48][02468][1235679][2468][048][0-
498 9][0-9][13579][26])-([02]-([01-9]|1[0-9]|2[0-9])T(((01)[0-9]|2[0-3]):[0-5][0-
499 9]))|(24:00))Z"/>
500   </xsd:restriction>
501 </xsd:simpleType>
502 <xsd:simpleType name="DateHourMinuteUTCOffsetType">
503   <xsd:annotation>
504     <xsd:documentation>ISO 8601 format: YYYY-MM-
505 DDThh:mm+hh:mm</xsd:documentation>
506   </xsd:annotation>
507   <xsd:restriction base="xsd:token">
508     <xsd:pattern value="(([0-9]{4})-(0[13578]|1[02])-([01-9]|12)[0-
509 9]|3[01]))|([0-9]{4})-((0[469])|(11))-([01-9]|12)[0-9]|30)T(((01)[0-9]|2[0-
510 3]):[0-5][0-9])|(24:00))([\+\-\[\0-1\]\0-9]\2[0-3]):[0-5][0-9])"/>
511

```

```

512
513           <xsd:pattern
514             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))((\+|\-)([0-1][0-9]|2[0-3]):[0-5][0-9]))"/>
515           <xsd:pattern
516             value="([13579][26][02468][1235679][[13579][01345789](0)[01235679][13579][01345789][2468][1235679][02468][048][02468][1235679][048][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]))|(24:00))((\+|\-)([0-1][0-9]|2[0-3]):[0-5][0-9]))"/>
517           </xsd:restriction>
518       </xsd:simpleType>
519     <xsd:simpleType name="DateHourType">
520       <xsd:annotation>
521         <xsd:documentation>ISO 8601 format: YYYY-MM-
522 DDThh</xsd:documentation>
523       </xsd:annotation>
524       <xsd:restriction base="xsd:token">
525         <xsd:pattern value="(([0-9]{4})-(0[13578]|1[02])-(0[1-9]|1[12][0-9]|3[01])|([0-9]{4})-((0[469])|(11))-(0[1-9]|1[12][0-9]|30))T(([01][0-9])|(2[0-4]))"/>
526         <xsd:pattern
527           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[0-8]))T(([01][0-9])|(2[0-4]))"/>
528         </xsd:pattern>
529       </xsd:restriction>
530     </xsd:simpleType>
531   <xsd:simpleType name="DateHourUTCType">
532     <xsd:annotation>
533       <xsd:documentation>ISO 8601 format: YYYY-MM-
534 DDThhZ</xsd:documentation>
535     </xsd:annotation>
536     <xsd:restriction base="xsd:token">
537       <xsd:pattern value="(([0-9]{4})-(0[13578]|1[02])-(0[1-9]|1[12][0-9]|3[01])|([0-9]{4})-((0[469])|(11))-(0[1-9]|1[12][0-9]|30))T(([01][0-9])|(2[0-4]))Z"/>
538       <xsd:pattern
539         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[0-8]))T(([01][0-9])|(2[0-4]))Z"/>
540       </xsd:pattern>
541     </xsd:restriction>
542   </xsd:simpleType>
543   <xsd:simpleType name="DateHourUTCOffsetType">
544     <xsd:annotation>
545       <xsd:documentation>ISO 8601 format: YYYY-MM-
546 DDThh+hh:mm</xsd:documentation>
547     </xsd:annotation>
548     <xsd:restriction base="xsd:token">
549       <xsd:pattern value="(([0-9]{4})-(0[13578]|1[02])-(0[1-9]|1[12][0-9]|3[01])|([0-9]{4})-((0[469])|(11))-(0[1-9]|1[12][0-9]|30))T(([01][0-9])|(2[0-4]))((\+|\-)([0-1][0-9]|2[0-3]):[0-5][0-9]))"/>
550       <xsd:pattern
551         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[0-8]))T(([01][0-9])|(2[0-4]))((\+|\-)([0-1][0-9]|2[0-3]):[0-5][0-9]))"/>
552       </xsd:pattern>
553     </xsd:restriction>
554   </xsd:simpleType>
555   <xsd:simpleType name="DateTimeType">
556     <xsd:annotation>
557       <xsd:documentation>ISO 8601 format: YYYY-MM-
558 DDThh+hh:mm</xsd:documentation>
559     </xsd:annotation>
560     <xsd:restriction base="xsd:token">
561       <xsd:pattern value="(([0-9]{4})-(0[13578]|1[02])-(0[1-9]|1[12][0-9]|3[01])|([0-9]{4})-((0[469])|(11))-(0[1-9]|1[12][0-9]|30))T(([01][0-9])|(2[0-4]))((\+|\-)([0-1][0-9]|2[0-3]):[0-5][0-9]))"/>
562       <xsd:pattern
563         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[0-8]))T(([01][0-9])|(2[0-4]))((\+|\-)([0-1][0-9]|2[0-3]):[0-5][0-9]))"/>
564       </xsd:pattern>
565     </xsd:restriction>
566   </xsd:simpleType>
567   <xsd:simpleType name="DateTimeOffsetType">
568     <xsd:annotation>
569       <xsd:documentation>ISO 8601 format: YYYY-MM-
570 DDThh+hh:mmZ</xsd:documentation>
571     </xsd:annotation>
572     <xsd:restriction base="xsd:token">
573       <xsd:pattern value="(([0-9]{4})-(0[13578]|1[02])-(0[1-9]|1[12][0-9]|3[01])|([0-9]{4})-((0[469])|(11))-(0[1-9]|1[12][0-9]|30))T(([01][0-9])|(2[0-4]))((\+|\-)([0-1][0-9]|2[0-3]):[0-5][0-9]))"/>
574       <xsd:pattern
575         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[0-8]))T(([01][0-9])|(2[0-4]))((\+|\-)([0-1][0-9]|2[0-3]):[0-5][0-9]))"/>
576       </xsd:pattern>
577     </xsd:restriction>
578   </xsd:simpleType>
579   <xsd:simpleType name="DateTimeOffsetTimeType">
580     <xsd:annotation>
581       <xsd:documentation>ISO 8601 format: YYYY-MM-
582 DDThh+hh:mmZ</xsd:documentation>
583     </xsd:annotation>
584     <xsd:restriction base="xsd:token">
585       <xsd:pattern value="(([0-9]{4})-(0[13578]|1[02])-(0[1-9]|1[12][0-9]|3[01])|([0-9]{4})-((0[469])|(11))-(0[1-9]|1[12][0-9]|30))T(([01][0-9])|(2[0-4]))((\+|\-)([0-1][0-9]|2[0-3]):[0-5][0-9]))"/>
586       <xsd:pattern
587         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[0-8]))T(([01][0-9])|(2[0-4]))((\+|\-)([0-1][0-9]|2[0-3]):[0-5][0-9]))"/>
588     </xsd:restriction>
589   </xsd:simpleType>
590 
```

```

588             <xsd:documentation>ISO 8601 format: YYYY-MM-
589 DDThh:mm:ss</xsd:documentation>
590         </xsd:annotation>
591         <xsd:restriction base="xsd:dateTime">
592             <xsd:pattern value="(([0-9]{4})-(0[13578]|1[02])-([01-9]|12)[0-
593 9]|3[01])|(([0-9]{4})-([0469])|(11))-([01-9]|12)[0-9]|30)T(((01)[0-9]|2[0-
594 3]):[0-5][0-9]:([0-5][0-9]|((\.[0-9]+))))|(24:00:00))"/>
595             <xsd:pattern
596             value="([13579][26][02468][048]| [13579][01345789](0)[48]| [13579][01345789][2468][04
597 8]| [02468][048][02468][048]| [02468][1235679](0)[48]| [02468][1235679][2468][048]| [0-
598 9][0-9]| [13579][26])-([02)-([01-9]|1[0-9]|2[0-9])T(((01)[0-9]|2[0-3]):[0-5][0-
599 9]:([0-5][0-9]|((\.[0-9]+))))|(24:00:00))"/>
600             <xsd:pattern
601             value="([13579][26][02468][048]| [13579][01345789](0)[48]| [13579][01345789][2468][04
602 8]| [02468][048][02468][048]| [02468][1235679](0)[48]| [02468][1235679][2468][048]| [0-
603 9][0-9]| [13579][26])-([02)-([01-9]|1[0-9]|2[0-9])T(((01)[0-9]|2[0-3]):[0-5][0-
604 9]:([0-5][0-9]|((\.[0-9]+))))|(24:00:00))"/>
605             </xsd:restriction>
606         </xsd:simpleType>
607         <xsd:simpleType name="DateTimeUTCType">
608             <xsd:annotation>
609                 <xsd:documentation>ISO 8601 format: YYYY-MM-
610 DDThh:mm:ssZ</xsd:documentation>
611             </xsd:annotation>
612             <xsd:restriction base="xsd:dateTime">
613                 <xsd:pattern value="(([0-9]{4})-(0[13578]|1[02])-([01-9]|12)[0-
614 9]|3[01])|(([0-9]{4})-([0469])|(11))-([01-9]|12)[0-9]|30)T(((01)[0-9]|2[0-
615 3]):[0-5][0-9]:([0-5][0-9]|((\.[0-9]+))))|(24:00:00))Z"/>
616                 <xsd:pattern
617                 value="([13579][26][02468][048]| [13579][01345789](0)[48]| [13579][01345789][2468][04
618 8]| [02468][048][02468][048]| [02468][1235679](0)[48]| [02468][1235679][2468][048]| [0-
619 9][0-9]| [13579][26])-([02)-([01-9]|1[0-9]|2[0-9])T(((01)[0-9]|2[0-3]):[0-5][0-
620 9]:([0-5][0-9]|((\.[0-9]+))))|(24:00:00))Z"/>
621                 <xsd:pattern
622                 value="([13579][26][02468][1235679]| [13579][01345789](0)[01235679]| [13579][01345789]
623 [2468][1235679]| [02468][048][02468][1235679]| [02468][1235679](0)[01235679]| [02468]
624 [1235679][2468][1235679]| [0-9][0-9]| [13579][01345789])-([02)-([01-9]|1[0-9]|2[0-
625 8])T(((01)[0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|((\.[0-9]+))))|(24:00:00))Z"/>
626             </xsd:restriction>
627         </xsd:simpleType>
628         <xsd:simpleType name="DateTimeUTCOffsetType">
629             <xsd:annotation>
630                 <xsd:documentation>ISO 8601 format: YYYY-MM-
631 DDThh:mm:ss+hh:mmZ</xsd:documentation>
632             </xsd:annotation>
633             <xsd:restriction base="xsd:dateTime">
634                 <xsd:pattern value="(([0-9]{4})-(0[13578]|1[02])-([01-9]|12)[0-
635 9]|3[01])|(([0-9]{4})-([0469])|(11))-([01-9]|12)[0-9]|30)T(((01)[0-9]|2[0-
636 3]):[0-5][0-9]:([0-5][0-9]|((\.[0-9]+))))|(24:00:00))(([\+|\-](0-1)[0-9]|2[0-
637 3]):[0-5][0-9])"/>
638                 <xsd:pattern
639                 value="([13579][26][02468][048]| [13579][01345789](0)[48]| [13579][01345789][2468][04
640 8]| [02468][048][02468][048]| [02468][1235679](0)[48]| [02468][1235679][2468][048]| [0-
641 9][0-9]| [13579][26])-([02)-([01-9]|1[0-9]|2[0-9])T(((01)[0-9]|2[0-3]):[0-5][0-
642 9]:([0-5][0-9]|((\.[0-9]+))))|(24:00:00))(([\+|\-](0-1)[0-9]|2[0-3]):[0-5][0-9])"/>
643                 <xsd:pattern
644                 value="([13579][26][02468][1235679]| [13579][01345789](0)[01235679]| [13579][01345789]
645 [2468][1235679]| [02468][048][02468][1235679]| [02468][1235679](0)[01235679]| [02468]
646 [1235679][2468][1235679]| [0-9][0-9]| [13579][01345789])-([02)-([01-9]|1[0-9]|2[0-
647 8])T(((01)[0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|((\.[0-9]+))))|(24:00:00))(([\+|\-]
648 )|([0-1][0-9]|2[0-3]):[0-5][0-9])"/>
649                 </xsd:restriction>
650             </xsd:simpleType>
651             <xsd:simpleType name="DayHourMinuteType">
652                 <xsd:annotation>
653                     <xsd:documentation>ISO 8601 format: ---
654 DDThh:mm</xsd:documentation>
655                 </xsd:annotation>
656                 <xsd:restriction base="xsd:token">
657                     <xsd:pattern value="---(0[1-9]|12)[0-9]|3[01])T(((01)[0-9]|2[0-
658 3]):[0-5][0-9])|(24:00))"/>
659                     </xsd:restriction>
660                 </xsd:simpleType>
661                 <xsd:simpleType name="DayHourMinuteUTCType">
662                     <xsd:annotation>
```

```

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]|1[2][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]|1[2][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]|1[2][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]|1[2][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]|1[2][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-DDThh: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])|([+|-]([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-DThh</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-DThhZ</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: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             DThh: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             DThh: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             DThh: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>
```

```

815             <xsd:documentation>ISO 8601 format: -
816 DDDThh:mm+hh:mm</xsd:documentation>
817         </xsd:annotation>
818         <xsd:restriction base="xsd:token">
819             <xsd:pattern value="-((00[1-9])|(0[1-9][0-9])|([1-2][0-9][0-
820 9])|(3[0-5][0-9])|(36[0-6]))T(((01)[0-9]|2[0-3]):[0-5][0-9]):(24:00)([\+|\-](0-
821 1)[0-9]|2[0-3]):[0-5][0-9])"/>
822         </xsd:restriction>
823     </xsd:simpleType>
824     <xsd:simpleType name="DayOfYearHourType">
825         <xsd:annotation>
826             <xsd:documentation>ISO 8601 format: -DDDThh</xsd:documentation>
827         </xsd:annotation>
828         <xsd:restriction base="xsd:token">
829             <xsd:pattern value="-((00[1-9])|(0[1-9][0-9])|([1-2][0-9][0-
830 9])|(3[0-5][0-9])|(36[0-6]))T([0-1][0-9]|2[0-4])"/>
831         </xsd:restriction>
832     </xsd:simpleType>
833     <xsd:simpleType name="DayOfYearHourUTCType">
834         <xsd:annotation>
835             <xsd:documentation>ISO 8601 format: -DDDThhZ</xsd:documentation>
836         </xsd:annotation>
837         <xsd:restriction base="xsd:token">
838             <xsd:pattern value="-((00[1-9])|(0[1-9][0-9])|([1-2][0-9][0-
839 9])|(3[0-5][0-9])|(36[0-6]))T([0-1][0-9]|2[0-4])Z"/>
840         </xsd:restriction>
841     </xsd:simpleType>
842     <xsd:simpleType name="DayOfYearHourUTCOffsetType">
843         <xsd:annotation>
844             <xsd:documentation>ISO 8601 format: -
845 DDDThh:hh:mm</xsd:documentation>
846         </xsd:annotation>
847         <xsd:restriction base="xsd:token">
848             <xsd:pattern value="-((00[1-9])|(0[1-9][0-9])|([1-2][0-9][0-
849 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-
850 5][0-9])"/>
851         </xsd:restriction>
852     </xsd:simpleType>
853     <xsd:simpleType name="DayOfYearTimeType">
854         <xsd:annotation>
855             <xsd:documentation>ISO 8601 format: -
856 DDDThh:mm:ss</xsd:documentation>
857         </xsd:annotation>
858         <xsd:restriction base="xsd:token">
859             <xsd:pattern value="-((00[1-9])|(0[1-9][0-9])|([1-2][0-9][0-
860 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-
861 9]+))|(24:00:00))"/>
862         </xsd:restriction>
863     </xsd:simpleType>
864     <xsd:simpleType name="DayOfYearTimeUTCType">
865         <xsd:annotation>
866             <xsd:documentation>ISO 8601 format: -
867 DDDThh:mm:ssZ</xsd:documentation>
868         </xsd:annotation>
869         <xsd:restriction base="xsd:token">
870             <xsd:pattern value="-((00[1-9])|(0[1-9][0-9])|([1-2][0-9][0-
871 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-
872 9]+))|(24:00:00))Z"/>
873         </xsd:restriction>
874     </xsd:simpleType>
875     <xsd:simpleType name="DayOfYearTimeUTCOffsetType">
876         <xsd:annotation>
877             <xsd:documentation>ISO 8601 format: -
878 DDDThh:mm:ss+hh:mm</xsd:documentation>
879         </xsd:annotation>
880         <xsd:restriction base="xsd:token">
881             <xsd:pattern value="-((00[1-9])|(0[1-9][0-9])|([1-2][0-9][0-
882 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-
883 9]+))|(24:00:00)):([\+|\-](0-1)[0-9]|2[0-3]):[0-5][0-9])"/>
884         </xsd:restriction>
885     </xsd:simpleType>
886     <xsd:simpleType name="DayTimeType">
887         <xsd:annotation>
888             <xsd:documentation>ISO 8601 format: ---
```

```

891         <xsd:restriction base="xsd:token">
892             <xsd:pattern value="---(0[1-9]|12)[0-9]|3[01])T(((01)[0-9]|2[0-
893 3]):[0-5][0-9]:([0-5][0-9]|(\.[0-9]+))|(24:00:00))"/>
894         </xsd:restriction>
895     </xsd:simpleType>
896     <xsd:simpleType name="DayTimeUTCType">
897         <xsd:annotation>
898             <xsd:documentation>ISO 8601 format: ---  
DDThh:mm:ssZ</xsd:documentation>
899             </xsd:annotation>
900             <xsd:restriction base="xsd:token">
901                 <xsd:pattern value="---(0[1-9]|12)[0-9]|3[01])T(((01)[0-9]|2[0-
902 3]):[0-5][0-9]:([0-5][0-9]|(\.[0-9]+))|(24:00:00))Z"/>
903             </xsd:restriction>
904         </xsd:simpleType>
905         <xsd:simpleType name="DayTimeUTCOffsetType">
906             <xsd:annotation>
907                 <xsd:documentation>ISO 8601 format: ---  
DDThh:mm:ss+hh:mm</xsd:documentation>
908                 </xsd:annotation>
909                 <xsd:restriction base="xsd:token">
910                     <xsd:pattern value="---(0[1-9]|12)[0-9]|3[01])T(((01)[0-9]|2[0-
911 3]):[0-5][0-9]:([0-5][0-9]|(\.[0-9]+))|(24:00:00))((\+|\-)([0-1][0-9]|2[0-
912 3]):[0-5][0-9])"/>
913                     </xsd:restriction>
914                 </xsd:simpleType>
915                 <xsd:simpleType name="MonthDayHourMinuteType">
916                     <xsd:annotation>
917                         <xsd:documentation>ISO 8601 format: -MM-  
DDThh:mm</xsd:documentation>
918                         </xsd:annotation>
919                         <xsd:restriction base="xsd:token">
920                             <xsd:pattern value="---(((0[13578]-(0[1-9]|12)[0-
921 9]|3[01]))|(1[02]-0[1-9]|12)[0-9]|3[01]))|((0[469]-(0[1-9]|12)[0-9]|30))|(11-
922 (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-
923 9])|(24:00))"/>
924                         </xsd:restriction>
925                     </xsd:simpleType>
926                     <xsd:simpleType name="MonthDayHourMinuteUTCType">
927                         <xsd:annotation>
928                             <xsd:documentation>ISO 8601 format: -MM-  
DDThh:mmZ</xsd:documentation>
929                         </xsd:annotation>
930                         <xsd:restriction base="xsd:token">
931                             <xsd:pattern value="---(((0[13578]-(0[1-9]|12)[0-
932 9]|3[01]))|(1[02]-0[1-9]|12)[0-9]|3[01]))|((0[469]-(0[1-9]|12)[0-9]|30))|(11-
933 (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-
934 9])|(24:00))Z"/>
935                         </xsd:restriction>
936                     </xsd:simpleType>
937                     <xsd:simpleType name="MonthDayHourMinuteUTCOffsetType">
938                         <xsd:annotation>
939                             <xsd:documentation>ISO 8601 format: -MM-  
DDThh:mm+hh:mm</xsd:documentation>
940                         </xsd:annotation>
941                         <xsd:restriction base="xsd:token">
942                             <xsd:pattern value="---(((0[13578]-(0[1-9]|12)[0-
943 9]|3[01]))|(1[02]-0[1-9]|12)[0-9]|3[01]))|((0[469]-(0[1-9]|12)[0-9]|30))|(11-
944 (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-
945 9])|(24:00))((\+|\-)([0-1][0-9]|2[0-3]):[0-5][0-9])"/>
946                         </xsd:restriction>
947                     </xsd:simpleType>
948                     <xsd:simpleType name="MonthDayHourType">
949                         <xsd:annotation>
950                             <xsd:documentation>ISO 8601 format: -MM-DDThh</xsd:documentation>
951                         </xsd:annotation>
952                         <xsd:restriction base="xsd:token">
953                             <xsd:pattern value="---(((0[13578]-(0[1-9]|12)[0-
954 9]|3[01]))|(1[02]-0[1-9]|12)[0-9]|3[01]))|((0[469]-(0[1-9]|12)[0-9]|30))|(11-
955 (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])"/>
956                         </xsd:restriction>
957                     </xsd:simpleType>
958                     <xsd:simpleType name="MonthDayHourUTCType">
959                         <xsd:annotation>
960                             <xsd:documentation>ISO 8601 format: -MM-DDThhZ</xsd:documentation>
961                         </xsd:annotation>

```

```

967         <xsd:restriction base="xsd:token">
968             <xsd:pattern value="-((0[13578]-(0[1-9]|12)[0-9]|3[01]))|(1[02]-
969             (0[1-9]|12)[0-9]|3[01]))|((0[469]-(0[1-9]|12)[0-9]|30))|(11-(0[1-9]|12)[0-
970             9]|30))||(02-(0[1-9]|1[0-9]|2[0-9]))T([0-1][0-9]|2[0-4])Z"/>
971         </xsd:restriction>
972     </xsd:simpleType>
973     <xsd:simpleType name="MonthDayHourUTCOffsetType">
974         <xsd:annotation>
975             <xsd:documentation>ISO 8601 format: -MM-
976             DDThh:mm</xsd:documentation>
977         </xsd:annotation>
978         <xsd:restriction base="xsd:token">
979             <xsd:pattern value="-((0[13578]-(0[1-9]|12)[0-9]|3[01]))|(1[02]-
980             (0[1-9]|12)[0-9]|3[01]))|((0[469]-(0[1-9]|12)[0-9]|30))|(11-(0[1-9]|12)[0-
981             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-
982             3]):[0-5][0-9]"/>
983         </xsd:restriction>
984     </xsd:simpleType>
985     <xsd:simpleType name="MonthDayTimeType">
986         <xsd:annotation>
987             <xsd:documentation>ISO 8601 format: -MM-
988             DDThh:mm:ss</xsd:documentation>
989         </xsd:annotation>
990         <xsd:restriction base="xsd:token">
991             <xsd:pattern value="--((0[13578]-(0[1-9]|12)[0-
992             9]|3[01]))|(1[02]-(0[1-9]|12)[0-9]|3[01]))|((0[469]-(0[1-9]|12)[0-9]|30))|(11-
993             (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-
994             9]:([0-5][0-9]|([.\[0-9]+]))||(24:00:00))"/>
995         </xsd:restriction>
996     </xsd:simpleType>
997     <xsd:simpleType name="MonthDayTimeUTCType">
998         <xsd:annotation>
999             <xsd:documentation>ISO 8601 format: -MM-
1000             DDThh:mm:ssZ</xsd:documentation>
1001         </xsd:annotation>
1002         <xsd:restriction base="xsd:token">
1003             <xsd:pattern value="--((0[13578]-(0[1-9]|12)[0-
1004             9]|3[01]))|(1[02]-(0[1-9]|12)[0-9]|3[01]))|((0[469]-(0[1-9]|12)[0-9]|30))|(11-
1005             (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-
1006             9]:([0-5][0-9]|([.\[0-9]+]))||(24:00:00))Z"/>
1007         </xsd:restriction>
1008     </xsd:simpleType>
1009     <xsd:simpleType name="MonthDayTimeUTCOffsetType">
1010         <xsd:annotation>
1011             <xsd:documentation>ISO 8601 format: -MM-
1012             DDThh:mm:ss+hh:mm</xsd:documentation>
1013         </xsd:annotation>
1014         <xsd:restriction base="xsd:token">
1015             <xsd:pattern value="--((0[13578]-(0[1-9]|12)[0-
1016             9]|3[01]))|(1[02]-(0[1-9]|12)[0-9]|3[01]))|((0[469]-(0[1-9]|12)[0-9]|30))|(11-
1017             (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-
1018             9]:([0-5][0-9]|([.\[0-9]+]))||(24:00:00))([+\|-]([0-1][0-9]|2[0-3]):[0-5][0-9]"/>
1019         </xsd:restriction>
1020     </xsd:simpleType>
1021     <xsd:simpleType name="WeekDayHourMinuteType">
1022         <xsd:annotation>
1023             <xsd:documentation>ISO 8601 format: -Www-
1024             DTTh:mm</xsd:documentation>
1025         </xsd:annotation>
1026         <xsd:restriction base="xsd:token">
1027             <xsd:pattern value="-W(0[1-9]|1-4)[0-9]|5[0123])-1-7T(([01][0-
1028             9]|2[0-3]):[0-5][0-9])|(24:00))"/>
1029         </xsd:restriction>
1030     </xsd:simpleType>
1031     <xsd:simpleType name="WeekDayHourMinuteUTCType">
1032         <xsd:annotation>
1033             <xsd:documentation>ISO 8601 format: -Www-
1034             DTTh:mmZ</xsd:documentation>
1035         </xsd:annotation>
1036         <xsd:restriction base="xsd:token">
1037             <xsd:pattern value="-W(0[1-9]|1-4)[0-9]|5[0123])-1-7T(([01][0-
1038             9]|2[0-3]):[0-5][0-9])|(24:00))Z"/>
1039         </xsd:restriction>
1040     </xsd:simpleType>
1041     <xsd:simpleType name="WeekDayHourMinuteUTCOffsetType">
1042         <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-
DThh+hh:mm</xsd:documentation>
1072             </xsd:annotation>
1073             <xsd:restriction base="xsd:token">
1074               <xsd:pattern value="-W(0[1-9]|1-4)[0-9]5[0123])-[1-7]T([0-1][0-
1075 9]|2[0-4])[\+|\-]([0-1][0-9]|2[0-3]):[0-5][0-9]"/>
1076             </xsd:restriction>
1077           </xsd:simpleType>
1078           <xsd:simpleType name="WeekDayTimeType">
1079             <xsd:annotation>
1080               <xsd:documentation>ISO 8601 format: -Www-
DThh:mm:ss</xsd:documentation>
1081             </xsd:annotation>
1082             <xsd:restriction base="xsd:token">
1083               <xsd:pattern value="-W(0[1-9]|1-4)[0-9]5[0123])-[1-7]T(([01][0-
1084 9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|((\.[0-9]+))|(24:00:00))"/>
1085             </xsd:restriction>
1086           </xsd:simpleType>
1087           <xsd:simpleType name="WeekDayTimeUTCType">
1088             <xsd:annotation>
1089               <xsd:documentation>ISO 8601 format: -Www-
DThh:mm:ssZ</xsd:documentation>
1090             </xsd:annotation>
1091             <xsd:restriction base="xsd:token">
1092               <xsd:pattern value="-W(0[1-9]|1-4)[0-9]5[0123])-[1-7]T(([01][0-
1093 9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|((\.[0-9]+))|(24:00:00))Z"/>
1094             </xsd:restriction>
1095           </xsd:simpleType>
1096           <xsd:simpleType name="WeekDayTimeUTCOffsetType">
1097             <xsd:annotation>
1098               <xsd:documentation>ISO 8601 format: -Www-
DThh:mm:ss+hh:mm</xsd:documentation>
1099             </xsd:annotation>
1100             <xsd:restriction base="xsd:token">
1101               <xsd:pattern value="-W(0[1-9]|1-4)[0-9]5[0123])-[1-7]T(([01][0-
1102 9]|2[0-3]):[0-5][0-9]:([0-5][0-9]|((\.[0-9]+))|(24:00:00))((\+|\-)([0-1][0-
1103 9]|2[0-3]):[0-5][0-9])"/>
1104             </xsd:restriction>
1105           </xsd:simpleType>
1106           <xsd:simpleType name="YearDayHourMinuteType">
1107             <xsd:annotation>
1108               <xsd:documentation>ISO 8601 format: YYYY-
1109 DDDThh:mm</xsd:documentation>
1110             </xsd:annotation>
1111             <xsd:restriction base="xsd:token">
```

```

1116           <xsd:pattern
1117             value="([13579][26][02468][048|[13579][01345789](0)[48]|[[13579][01345789][2468][04
1118               8]]|[02468][048][02468][048|[02468][1235679](0)[48]|[[02468][1235679][2468][048]|[[0-
1119                   9][0-9][13579][26])-((0[0[1-9])|(0[1-9][0-9])|((1-2)[0-9][0-9])|(3[0-5][0-9])|(36[0-
1120                       6]))T(((0[1][0-9]|2[0-3]):[0-5][0-9])|(24:00))"/>
1121           <xsd:pattern
1122             value="([13579][26][02468][1235679][[13579][01345789](0)[01235679][[13579][01345789
1123               ][2468][1235679]]|[02468][048][02468][1235679][[02468][1235679](0)[01235679][[02468
1124                   [1235679][2468][1235679][0-9][0-9][13579][01345789])-((0[0[1-9])|(0[1-9][0-9])|((1-
1125                       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])|(24:00))"/>
1126           </xsd:restriction>
1127       </xsd:simpleType>
1128     <xsd:simpleType name="YearDayHourMinuteUTCType">
1129       <xsd:annotation>
1130         <xsd:documentation>ISO 8601 format: YYYY-
1131           DDDThh:mmZ</xsd:documentation>
1132         </xsd:annotation>
1133         <xsd:restriction base="xsd:token">
1134           <xsd:pattern
1135             value="([13579][26][02468][048|[13579][01345789](0)[48]|[[13579][01345789][2468][04
1136               8]]|[02468][048][02468][048|[02468][1235679](0)[48]|[[02468][1235679][2468][048]|[[0-
1137                   9][0-9][13579][26])-((0[0[1-9])|(0[1-9][0-9])|((1-2)[0-9][0-9])|(3[0-5][0-9])|(36[0-
1138                       6]))T(((0[1][0-9]|2[0-3]):[0-5][0-9])|(24:00))Z"/>
1139           <xsd:pattern
1140             value="([13579][26][02468][1235679][[13579][01345789](0)[01235679][[13579][01345789
1141               ][2468][1235679]]|[02468][048][02468][1235679][[02468][1235679](0)[01235679][[02468
1142                   [1235679][2468][1235679][0-9][0-9][13579][01345789])-((0[0[1-9])|(0[1-9][0-9])|((1-
1143                       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])|(24:00))Z"/>
1144           </xsd:restriction>
1145       </xsd:simpleType>
1146     <xsd:simpleType name="YearDayHourMinuteUTCOffsetType">
1147       <xsd:annotation>
1148         <xsd:documentation>ISO 8601 format: YYYY-
1149           DDDThh:mm+hh:mm</xsd:documentation>
1150         </xsd:annotation>
1151         <xsd:restriction base="xsd:token">
1152           <xsd:pattern
1153             value="([13579][26][02468][048|[13579][01345789](0)[48]|[[13579][01345789][2468][04
1154               8]]|[02468][048][02468][048|[02468][1235679](0)[48]|[[02468][1235679][2468][048]|[[0-
1155                   9][0-9][13579][26])-((0[0[1-9])|(0[1-9][0-9])|((1-2)[0-9][0-9])|(3[0-5][0-9])|(36[0-
1156                       6]))T(((0[1][0-9]|2[0-3]):[0-5][0-9])|(24:00))((\+|\-)([0-1][0-9]|2[0-3]):[0-5][0-
1157                           9]))"/>
1158           <xsd:pattern
1159             value="([13579][26][02468][1235679][[13579][01345789](0)[01235679][[13579][01345789
1160               ][2468][1235679]]|[02468][048][02468][1235679][[02468][1235679](0)[01235679][[02468
1161                   [1235679][2468][1235679][0-9][0-9][13579][01345789])-((0[0[1-9])|(0[1-9][0-9])|((1-
1162                       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])|(24:00))((\+|\-)([0-1][0-9]|2[0-3]):[0-5][0-9]))"/>
1163           </xsd:restriction>
1164       </xsd:simpleType>
1165     <xsd:simpleType name="YearDayHourType">
1166       <xsd:annotation>
1167         <xsd:documentation>ISO 8601 format: YYYY-
1168           DDDThh</xsd:documentation>
1169         </xsd:annotation>
1170         <xsd:restriction base="xsd:token">
1171           <xsd:pattern
1172             value="([13579][26][02468][048|[13579][01345789](0)[48]|[[13579][01345789][2468][04
1173               8]]|[02468][048][02468][048|[02468][1235679](0)[48]|[[02468][1235679][2468][048]|[[0-
1174                   9][0-9][13579][26])-((0[0[1-9])|(0[1-9][0-9])|((1-2)[0-9][0-9])|(3[0-5][0-9])|(36[0-
1175                       6]))T(([0-1][0-9]|2[0-4]))"/>
1176           <xsd:pattern
1177             value="([13579][26][02468][1235679][[13579][01345789](0)[01235679][[13579][01345789
1178               ][2468][1235679]]|[02468][048][02468][1235679][[02468][1235679](0)[01235679][[02468
1179                   [1235679][2468][1235679][0-9][0-9][13579][01345789])-((0[0[1-9])|(0[1-9][0-9])|((1-
1180                       2)[0-9][0-9])|(3[0-5][0-9])|(36[0-5]))T(([0-1][0-9]|2[0-4]))"/>
1181           </xsd:restriction>
1182       </xsd:simpleType>
1183     <xsd:simpleType name="YearDayHourUTCType">
1184       <xsd:annotation>
1185         <xsd:documentation>ISO 8601 format: YYYY-
1186           DDDThhZ</xsd:documentation>
1187         </xsd:annotation>
1188         <xsd:restriction base="xsd:token">

```

```

1191             <xsd:pattern
1192     value="([13579][26][02468][048|[13579][01345789](0)[48]|[[13579][01345789][2468][04
1193     8]]|[02468][048][02468][048|[02468][1235679](0)[48]|[[02468][1235679][2468][048]|[[0-
1194     9][0-9][13579][26])-((0[1-9])[0[1-9][0-9]]|([1-2][0-9][0-9])|(3[0-5][0-9])|(36[0-
1195     6]))T([0-1][0-9]|2[0-4])Z"/>
1196             <xsd:pattern
1197     value="([13579][26][02468][1235679][[13579][01345789](0)[01235679][[13579][01345789
1198     ][2468][1235679]]|[02468][048][02468][1235679][[02468][1235679](0)[01235679][[02468
1199     [1235679][2468][1235679][0-9][0-9][13579][01345789])-((0[1-9])[0[1-9][0-9]]|([1-
1200     2][0-9][0-9])|(3[0-5][0-9])|(36[0-5]))T([0-1][0-9]|2[0-4])Z"/>
1201         </xsd:restriction>
1202     </xsd:simpleType>
1203     <xsd:simpleType name="YearDayHourUTCOffsetType">
1204         <xsd:annotation>
1205             <xsd:documentation>ISO 8601 format: YYYY-
1206 DDDThh:mm</xsd:documentation>
1207         </xsd:annotation>
1208         <xsd:restriction base="xsd:token">
1209             <xsd:pattern
1210     value="([13579][26][02468][048|[13579][01345789](0)[48]|[[13579][01345789][2468][04
1211     8]]|[02468][048][02468][048|[02468][1235679](0)[48]|[[02468][1235679][2468][048]|[[0-
1212     9][0-9][13579][26])-((0[1-9])[0[1-9][0-9]]|([1-2][0-9][0-9])|(3[0-5][0-9])|(36[0-
1213     6]))T([0-1][0-9]|2[0-4])([+|\-|([0-1][0-9]|2[0-3]):[0-5][0-9])"/>
1214             <xsd:pattern
1215     value="([13579][26][02468][1235679][[13579][01345789](0)[01235679][[13579][01345789
1216     ][2468][1235679]]|[02468][048][02468][1235679][[02468][1235679](0)[01235679][[02468
1217     [1235679][2468][1235679][0-9][0-9][13579][01345789])-((0[1-9])[0[1-9][0-9]]|([1-
1218     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-
1219     3]):[0-5][0-9])"/>
1220             </xsd:restriction>
1221         </xsd:simpleType>
1222         <xsd:simpleType name="YearDayTimeType">
1223             <xsd:annotation>
1224                 <xsd:documentation>ISO 8601 format: YYYY-
1225 DDDThh:mm:ss</xsd:documentation>
1226             </xsd:annotation>
1227             <xsd:restriction base="xsd:token">
1228                 <xsd:pattern
1229     value="([13579][26][02468][048|[13579][01345789](0)[48]|[[13579][01345789][2468][04
1230     8]]|[02468][048][02468][048|[02468][1235679](0)[48]|[[02468][1235679][2468][048]|[[0-
1231     9][0-9][13579][26])-((0[1-9])[0[1-9][0-9]]|([1-2][0-9][0-9])|(3[0-5][0-9])|(36[0-
1232     6]))T(([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9|(\.\[0-9]+))|(24:00:00))"/>
1233                 <xsd:pattern
1234     value="([13579][26][02468][1235679][[13579][01345789](0)[01235679][[13579][01345789
1235     ][2468][1235679]]|[02468][048][02468][1235679][[02468][1235679](0)[01235679][[02468
1236     [1235679][2468][1235679][0-9][0-9][13579][01345789])-((0[1-9])[0[1-9][0-9]]|([1-
1237     2][0-9][0-9])|(3[0-5][0-9])|(36[0-5]))T(([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-
1238     9|(\.\[0-9]+))|(24:00:00))"/>
1239             </xsd:restriction>
1240         </xsd:simpleType>
1241         <xsd:simpleType name="YearDayTimeUTCType">
1242             <xsd:annotation>
1243                 <xsd:documentation>ISO 8601 format: YYYY-
1244 DDDThh:mm:ssZ</xsd:documentation>
1245             </xsd:annotation>
1246             <xsd:restriction base="xsd:token">
1247                 <xsd:pattern
1248     value="([13579][26][02468][048|[13579][01345789](0)[48]|[[13579][01345789][2468][04
1249     8]]|[02468][048][02468][048|[02468][1235679](0)[48]|[[02468][1235679][2468][048]|[[0-
1250     9][0-9][13579][26])-((0[1-9])[0[1-9][0-9]]|([1-2][0-9][0-9])|(3[0-5][0-9])|(36[0-
1251     6]))T(([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9|(\.\[0-9]+))|(24:00:00))Z"/>
1252                 <xsd:pattern
1253     value="([13579][26][02468][1235679][[13579][01345789](0)[01235679][[13579][01345789
1254     ][2468][1235679]]|[02468][048][02468][1235679][[02468][1235679](0)[01235679][[02468
1255     [1235679][2468][1235679][0-9][0-9][13579][01345789])-((0[1-9])[0[1-9][0-9]]|([1-
1256     2][0-9][0-9])|(3[0-5][0-9])|(36[0-5]))T(([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-
1257     9|(\.\[0-9]+))|(24:00:00))Z"/>
1258                 </xsd:restriction>
1259             </xsd:simpleType>
1260             <xsd:simpleType name="YearDayTimeUTCOffsetType">
1261                 <xsd:annotation>
1262                     <xsd:documentation>ISO 8601 format: YYYY-
1263 DDDThh:mm:ss+hh:mm</xsd:documentation>
1264                 </xsd:annotation>
1265                 <xsd:restriction base="xsd:token">

```

```
1266             <xsd:pattern
1267     value="(([13579][26][02468][048]][[13579][01345789](0)[48]][[13579][01345789][2468][04
1268     8])|[02468][048][02468][048][[02468][1235679](0)[48]]|[02468][1235679][2468][048][[0-
1269     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-
1270     6]])T(((0[1][0-9][2[0-3]):[0-5][0-9]:([0-5][0-9]([(\.[0-9]+))))|[24:00:00)))([\+\|\-
1271     ]([0-1][0-9][2[0-3]):[0-5][0-9]))"/>
1272             <xsd:pattern
1273     value="(([13579][26][02468][1235679][[13579][01345789](0)[01235679][[13579][01345789
1274     ][2468][1235679]]|[02468][048][02468][1235679][[02468][1235679](0)[01235679][[02468
1275     ][1235679][2468][1235679][0-9][0-9][13579][01345789])-((00[1-9])[0[1-9][0-9]])|([1-
1276     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-
1277     9]([(\.[0-9+]))))|[24:00:00)))([\+\|\-\]([0-1][0-9][2[0-3]):[0-5][0-9]))"/>
1278         </xsd:restriction>
1279     </xsd:simpleType>
1280     <xsd:simpleType name="YearWeekDayHourMinuteType">
1281         <xsd:annotation>
1282             <xsd:documentation>ISO 8601 format: YYYY-Www-
1283 DThh:mm</xsd:documentation>
1284         </xsd:annotation>
1285         <xsd:restriction base="xsd:token">
1286             <xsd:pattern value="[0-9]{4}-W(0[1-9][1-4][0-9]|5[0123])-[
1287     7]T(([01][0-9][2[0-3]):[0-5][0-9]]|[24:00))"/>
1288         </xsd:restriction>
1289     </xsd:simpleType>
1290     <xsd:simpleType name="YearWeekDayHourMinuteUTCType">
1291         <xsd:annotation>
1292             <xsd:documentation>ISO 8601 format: YYYY-Www-
1293 DThh:mmZ</xsd:documentation>
1294         </xsd:annotation>
1295         <xsd:restriction base="xsd:token">
1296             <xsd:pattern value="[0-9]{4}-W(0[1-9][1-4][0-9]|5[0123])-[
1297     7]T(([01][0-9][2[0-3]):[0-5][0-9]]|[24:00))Z"/>
1298         </xsd:restriction>
1299     </xsd:simpleType>
1300     <xsd:simpleType name="YearWeekDayHourMinuteUTCOffsetType">
1301         <xsd:annotation>
1302             <xsd:documentation>ISO 8601 format: YYYY-Www-
1303 DThh:mm+hh:mm</xsd:documentation>
1304         </xsd:annotation>
1305         <xsd:restriction base="xsd:token">
1306             <xsd:pattern value="[0-9]{4}-W(0[1-9][1-4][0-9]|5[0123])-[
1307     7]T(([01][0-9][2[0-3]):[0-5][0-9]]|[24:00)))([\+\|\-\]([0-1][0-9][2[0-3]):[0-5][0-
1308     9]))"/>
1309         </xsd:restriction>
1310     </xsd:simpleType>
1311     <xsd:simpleType name="YearWeekDayHourType">
1312         <xsd:annotation>
1313             <xsd:documentation>ISO 8601 format: YYYY-Www-
1314 DThh</xsd:documentation>
1315         </xsd:annotation>
1316         <xsd:restriction base="xsd:token">
1317             <xsd:pattern value="[0-9]{4}-W(0[1-9][1-4][0-9]|5[0123])-[
1318     7]T([0-1][0-9][2[0-4]))"/>
1319         </xsd:restriction>
1320     </xsd:simpleType>
1321     <xsd:simpleType name="YearWeekDayHourUTCType">
1322         <xsd:annotation>
1323             <xsd:documentation>ISO 8601 format: YYYY-Www-
1324 DThhZ</xsd:documentation>
1325         </xsd:annotation>
1326         <xsd:restriction base="xsd:token">
1327             <xsd:pattern value="[0-9]{4}-W(0[1-9][1-4][0-9]|5[0123])-[
1328     7]T([0-1][0-9][2[0-4))Z"/>
1329         </xsd:restriction>
1330     </xsd:simpleType>
1331     <xsd:simpleType name="YearWeekDayHourUTCOffsetType">
1332         <xsd:annotation>
1333             <xsd:documentation>ISO 8601 format: YYYY-Www-
1334 DThh+hh:mm</xsd:documentation>
1335         </xsd:annotation>
1336         <xsd:restriction base="xsd:token">
1337             <xsd:pattern value="[0-9]{4}-W(0[1-9][1-4][0-9]|5[0123])-[
1338     7]T([0-1][0-9][2[0-4)][\+\|\-\]([0-1][0-9][2[0-3]):[0-5][0-9]))"/>
1339         </xsd:restriction>
1340     </xsd:simpleType>
1341     <xsd:simpleType name="YearWeekDayTimeType">
```

```
1342      <xsd:annotation>
1343          <xsd:documentation>ISO 8601 format: YYYY-Www-
1344 DThh:mm:ss</xsd:documentation>
1345      </xsd:annotation>
1346      <xsd:restriction base="xsd:token">
1347          <xsd:pattern value="[0-9]{4}-W(0[1-9]|1-4)[0-9]|5[0123])-[1-
1348 7]T(([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9](|(\.[0-9]+)))|(24:00:00))"/>
1349      </xsd:restriction>
1350  </xsd:simpleType>
1351  <xsd:simpleType name="YearWeekDayTimeUTCType">
1352      <xsd:annotation>
1353          <xsd:documentation>ISO 8601 format: YYYY-Www-
1354 DThh:mm:ssZ</xsd:documentation>
1355      </xsd:annotation>
1356      <xsd:restriction base="xsd:token">
1357          <xsd:pattern value="[0-9]{4}-W(0[1-9]|1-4)[0-9]|5[0123])-[1-
1358 7]T(([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9](|(\.[0-9]+)))|(24:00:00))Z"/>
1359      </xsd:restriction>
1360  </xsd:simpleType>
1361  <xsd:simpleType name="YearWeekDayTimeUTCOffsetType">
1362      <xsd:annotation>
1363          <xsd:documentation>ISO 8601 format: YYYY-Www-
1364 DThh:mm:ss+hh:mm</xsd:documentation>
1365      </xsd:annotation>
1366      <xsd:restriction base="xsd:token">
1367          <xsd:pattern value="[0-9]{4}-W(0[1-9]|1-4)[0-9]|5[0123])-[1-
1368 7]T(([01][0-9]|2[0-3]):[0-5][0-9]:([0-5][0-9](|(\.[0-9]+)))|(24:00:00))([\+\-\
1369 ([0-1][0-9]|2[0-3]):[0-5][0-9])"/>
1370      </xsd:restriction>
1371  </xsd:simpleType>
```

1372 **4 Copyright Statement**

1373 Copyright © UN/CEFACT 2010. All Rights Reserved.

1374 This document and translations of it may be copied and furnished to others, and derivative
1375 works that comment on or otherwise explain it or assist in its implementation may be
1376 prepared, copied, published and distributed, in whole or in part, without restriction of any
1377 kind, provided that the above copyright notice and this paragraph are included on all such
1378 copies and derivative works. However, this document itself may not be modified in any way,
1379 such as by removing the copyright notice or references to UN/CEFACT except as required to
1380 translate it into languages other than English.

1381 The limited permissions granted above are perpetual and will not be revoked by
1382 UN/CEFACT or its successors or assigns.

1383 This document and the information contained herein is provided on an "AS IS" basis
1384 and UN/CEFACT DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED,
1385 INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE
1386 INFORMATION HEREIN WILL NOT INFRINGE ANY RIGHTS OR ANY IMPLIED
1387 WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR
1388 PURPOSE