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1 <?xml version="1.0" encoding="UTF-8"?>
2 <!--
3   WS-Calendar Streams Version 1.0
4   Committee Specification Draft 02
5   28 March 2013
6 -->
7 <!--
8   These extensions were developed to meet the specific for an extensible variant of
9   WS-Calendar for use in transaction processing of interval-based information.
10
11   iCalendar streams are intended to to be transformable into artifacts that work in conjunction
12   with conformant implementations of IETF RFC 5545 ( http://www.rfc-editor.org/rfc/rfc5545.txt ),
13   the normative specification of iCalendar, but are not themselves so conformant. -->
14 <!--Streams extensions to icalendar -->
15 <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xcal="urn:ietf:params:xml:ns:icalendar-2.0" xmlns:strm="
urn:ietf:params:xml:ns:icalendar-2.0:streams" targetNamespace="urn:ietf:params:xml:ns:icalendar-2.0:streams"
elementFormDefault="qualified">
16   <!-- =====
17     1.0 Stream Properties
18     ===== -->
19   <xs:import namespace="urn:ietf:params:xml:ns:icalendar-2.0" schemaLocation="
http://docs.oasis-open.org/ws-calendar/ws-calendar-spec/v1.0/cs01/xsd/iCalendar-props.xsd"/>
20   <xs:import namespace="urn:ietf:params:xml:ns:icalendar-2.0" schemaLocation="
http://docs.oasis-open.org/ws-calendar/ws-calendar-spec/v1.0/cs01/xsd/iCalendar-wscal-extensions.xsd"/>
21   <!-- 1.0 Abstract Stream Base -->
22   <xs:element name="streamBase" type="strm:StreamBaseType" abstract="true"/>
23   <xs:complexType name="StreamBaseType" abstract="true">
24     <xs:annotation>
25       <xs:documentation>abstract base for communication of schedules for signals and observations</xs:documentation>
26     </xs:annotation>
27     <xs:sequence>
28       <xs:element ref="xcal:dtstart" minOccurs="0" maxOccurs="1">
29         <xs:annotation>
30           <xs:documentation>Indicates when the Designated Interval of the Stream begins. May be inherited from containing
artifact.</xs:documentation>
31         </xs:annotation>
32       </xs:element>
33       <xs:element ref="xcal:duration" minOccurs="0" maxOccurs="1">
34         <xs:annotation>
35           <xs:documentation>Indicates the duration inherited by the intervals. May be inherited from containing artifact.</
xs:documentation>
36         </xs:annotation>
37       </xs:element>
38       <xs:element ref="xcal:related-to" minOccurs="0" maxOccurs="1">
39         <xs:annotation>
40           <xs:documentation>References an interval in the Stream as the Designated Interval. Optional. Default behavior is
that the "first" interval is the Designated Interval.</xs:documentation>
41         </xs:annotation>
42       </xs:element>
43       <xs:element ref="strm:intervals" minOccurs="0" maxOccurs="1"/>
44     </xs:sequence>
45   </xs:complexType>
46   <!-- 2.0 Stream Intervals Type -->
47   <xs:element name="intervals" type="strm:ArrayofStreamIntervals"/>
48   <xs:complexType name="ArrayOfStreamIntervals">
49     <xs:annotation>
50       <xs:documentation>Collection of Stream Interval derived elements that comprise a signal partition.</xs:documentation>
51     </xs:annotation>
52     <xs:sequence>
53       <xs:element ref="strm:streamInterval" minOccurs="0" maxOccurs="unbounded"/>
54     </xs:sequence>
55   </xs:complexType>
56   <!-- 2.1 Stream Interval Type -->
57   <xs:element name="streamInterval" type="strm:StreamIntervalType" abstract="true"/>
58   <xs:complexType name="StreamIntervalType" abstract="true" mixed="false">
59     <xs:annotation>
60       <xs:documentation xml:lang="en">Restricted variant of ws-calendar interval for streams. Stream Intervals are restricted
expressions of the WS-Calendar Interval that are transformable to but not identical to WS-Calendar Intervals.</xs:documentation>

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C:\T 61 </xs:annotation>
62 <xs:sequence>
63 <xs:element ref="xcal:baseProperty" minOccurs="0" maxOccurs="unbounded"/>
64 <xs:element ref="strm:streamPayloadBase" minOccurs="1" maxOccurs="1"/>
65 </xs:sequence>
66 </xs:complexType>
67 <!-- 3.0 Abstract Stream Payload -->
68 <xs:element name="streamPayloadBase" type="strm:StreamPayloadBaseType" abstract="true"/>
69 <xs:complexType name="StreamPayloadBaseType" abstract="true">
70 <xs:annotation>
71 <xs:documentation>Abstract class to convey a payload for a stream. When a Stream is transformed to or from a
WS-Calendar Interval, the contents of the Stream Payload defined element are transformed into the contents of a WS-Calendar
artifactBase.</xs:documentation>
72 </xs:annotation>
73 </xs:complexType>
74 </xs:schema>
75
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