

Schema documentation for massdot-itms-events-feed.xsd

february 22, 2019

Table of Contents

Schema(s)	2
Main schema massdot-itms-events-feed.xsd	2
Element(s)	2
Element latlon / Latitude	2
Element latlon / Longitude	2
Element locationPoint / RoadwayName	3
Element locationPoint / Coordinates	3
Element eventLocation / Point	3
Element eventLocation / Range	4
Element eventLocation / Range / Start	5
Element eventLocation / Range / Waypoint	5
Element eventLocation / Range / End	6
Element eventLocation / Area	7
Element eventLocation / Area / AreaType	7
Element eventLocation / Area / AreaValue	8
Element laneInfo / Direction	8
Element laneInfo / LanesAffected	8
Element eventOccurrence / StartDateTime	9
Element eventOccurrence / EndDateTime	9
Element event / Name	9
Element event / CreatedAt	10
Element event / ConfirmedAt	10
Element event / UpdatedAt	10
Element event / StartDate	10
Element event / Location	11
Element event / Status	11
Element event / LaneInfo	12
Element specialEventSpecifics / SpecialEventCharacteristics	12
Element plannedEvent / EndDate	13
Element plannedEvent / TypeSpecific	13
Element plannedEvent / Occurrences	14
Element plannedEvent / Occurrences / Occurrence	14
Element advisoryWatchWarningCharacteristics / ID	15
Element advisoryWatchWarningCharacteristics / Category	15
Element advisoryWatchWarningCharacteristics / EventType	16
Element advisoryWatchWarningCharacteristics / Location	16
Element advisoryWatchWarningCharacteristics / StartDateTime	16
Element advisoryWatchWarningCharacteristics / EndDateTime	17
Element roadwayTrafficCharacteristics / HasSpeedRestriction	17
Element roadwayTrafficCharacteristics / IsWithinWorkZone	17
Element roadwayTrafficCharacteristics / IsBoreClosureRequired	17
Element roadwayTrafficSpecifics / Subtype	18
Element roadwayTrafficSpecifics / Characteristics	18
Element actsOfNatureSpecifics / Characteristics	19
Element unplannedEvent / CategorySpecific	20
Element EventsFeed	20
Element EventsFeed / UpdateTimestamp	21
Element EventsFeed / Events	21
Element EventsFeed / Events / PlannedEvent	22
Element EventsFeed / Events / UnplannedEvent	24
Simple Type(s)	26
Simple Type eventStatus	26
Simple Type areaEventType	26
Simple Type plannedEventType	27
Simple Type constructionMaintenanceType	27
Simple Type specialEventType	28
Simple Type stadiumArenaEventType	28
Simple Type outdoorEventType	29
Simple Type athleticEventType	29
Simple Type unplannedEventCategory	29

Simple Type roadwayTrafficType	30
Simple Type roadwayTrafficFireSubtype	30
Simple Type roadwayTrafficRoadwayDamageSubtype	30
Simple Type roadwayTrafficRoadwayObstructionSubtype	31
Simple Type actsOfNatureType	31
Complex Type(s)	32
Complex Type latlon	32
Complex Type locationPoint	32
Complex Type eventLocation	33
Complex Type laneInfo	34
Complex Type eventOccurence	34
Complex Type event	35
Complex Type constructionMaintenanceSpecifics	36
Complex Type specialEventSpecifics	36
Complex Type plannedEvent	38
Complex Type advisoryWatchWarningCharacteristics	40
Complex Type roadwayTrafficCharacteristics	41
Complex Type roadwayTrafficSpecifics	41
Complex Type actsOfNatureSpecifics	42
Complex Type unplannedEvent	43
Attribute(s)	44
Attribute constructionMaintenanceSpecifics / @subtype	44
Attribute specialEventSpecifics / @subtype	44
Attribute plannedEvent / @type	45
Attribute roadwayTrafficSpecifics / @type	45
Attribute actsOfNatureSpecifics / @type	45
Attribute unplannedEvent / @category	46

Schema(s)

Main schema massdot-itms-events-feed.xsd

Properties	attribute form default: unqualified
	element form default: unqualified

Element(s)

Element latlon / Latitude

Diagram	
Type	restriction of xs:decimal
Properties	content: simple
Facets	maxInclusive 90
	minInclusive -90
Source	<pre><xs:element name="Latitude"> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:minInclusive value="-90"/> <xs:maxInclusive value="90"/> </xs:restriction> </xs:simpleType> </xs:element></pre>

Element latlon / Longitude

Diagram	
Type	restriction of xs:decimal
Properties	content: simple

Facets	maxInclusive	180
	minInclusive	-180
Source	<pre><xs:element name="Longitude"> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:minInclusive value="-180"/> <xs:maxInclusive value="180"/> </xs:restriction> </xs:simpleType> </xs:element></pre>	

Element locationPoint / RoadwayName

Annotations	Name of the roadway for the location including direction (e.g. I-93 NB).	
Diagram		
Type	xs:string	
Properties	content:	simple
Source	<pre><xs:element name="RoadwayName" type="xs:string"> <xs:annotation> <xs:documentation>Name of the roadway for the location including direction (e.g. I-93 NB).</xs:documentation> </xs:annotation> </xs:element></pre>	

Element locationPoint / Coordinates

Annotations	The coordinates of the start/end/decision point.	
Diagram		
Type	latlon	
Properties	content:	complex
Model	Latitude , Longitude	
Children	Latitude, Longitude	
Instance	<pre><Coordinates> <Latitude>{1,1}</Latitude> <Longitude>{1,1}</Longitude> </Coordinates></pre>	
Source	<pre><xs:element name="Coordinates" type="latlon"> <xs:annotation> <xs:documentation>The coordinates of the start/end/decision point.</xs:documentation> </xs:annotation> </xs:element></pre>	

Element eventLocation / Point

Annotations	The location for a point event.
-------------	---------------------------------

Diagram	
Type	locationPoint
Properties	content: complex
Model	RoadwayName , Coordinates
Children	Coordinates, RoadwayName
Instance	<pre><Point> <RoadwayName>{1,1}</RoadwayName> <Coordinates>{1,1}</Coordinates> </Point></pre>
Source	<pre><xs:element name="Point" type="locationPoint"> <xs:annotation> <xs:documentation>The location for a point event.</xs:documentation> </xs:annotation> </xs:element></pre>

Element eventLocation / Range

Annotations	The location for a range event.
Diagram	
Properties	content: complex
Model	Start , Waypoint* , End
Children	End, Start, Waypoint
Instance	<pre><Range> <Start>{1,1}</Start> <Waypoint>{0,unbounded}</Waypoint> <End>{1,1}</End> </Range></pre>
Source	<pre><xs:element name="Range"> <xs:annotation> <xs:documentation>The location for a range event.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="Start" type="locationPoint"></pre>

```

<xs:annotation>
  <xs:documentation>The point on the roadway that indicates the beginning of the event.</
xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="Waypoint" type="locationPoint" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>A point on the roadway that indicates a waypoint.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="End" type="locationPoint">
  <xs:annotation>
    <xs:documentation>The point on the roadway that indicates the end of the event.</
xs:documentation>
  </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>

```

Element eventLocation / Range / Start

Annotations	The point on the roadway that indicates the beginning of the event.
Diagram	<p>The diagram illustrates the structure of the Start element. The Start element is of type locationPoint. It contains a complex content model with two children: RoadwayName and Coordinates. RoadwayName is of type xs:string and has a cardinality of 1..1. Coordinates is of type latlon and has a cardinality of 1..1. The diagram also includes a legend for locationPoint and descriptive text for each child element.</p>
Type	locationPoint
Properties	content: complex
Model	RoadwayName , Coordinates
Children	Coordinates, RoadwayName
Instance	<pre> <Start> <RoadwayName>{1,1}</RoadwayName> <Coordinates>{1,1}</Coordinates> </Start> </pre>
Source	<pre> <xs:element name="Start" type="locationPoint"> <xs:annotation> <xs:documentation>The point on the roadway that indicates the beginning of the event.</ xs:documentation> </xs:annotation> </xs:element> </pre>

Element eventLocation / Range / Waypoint

Annotations	A point on the roadway that indicates a waypoint.
-------------	---

Diagram							
Type	locationPoint						
Properties	<table> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>unbounded</td></tr> </table>	content:	complex	minOccurs:	0	maxOccurs:	unbounded
content:	complex						
minOccurs:	0						
maxOccurs:	unbounded						
Model	RoadwayName , Coordinates						
Children	Coordinates, RoadwayName						
Instance	<pre><Waypoint> <RoadwayName>{1,1}</RoadwayName> <Coordinates>{1,1}</Coordinates> </Waypoint></pre>						
Source	<pre><xs:element name="Waypoint" type="locationPoint" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>A point on the roadway that indicates a waypoint.</xs:documentation> </xs:annotation> </xs:element></pre>						

Element eventLocation / Range / End

Annotations	The point on the roadway that indicates the end of the event.		
Diagram			
Type	locationPoint		
Properties	<table> <tr> <td>content:</td><td>complex</td></tr> </table>	content:	complex
content:	complex		
Model	RoadwayName , Coordinates		
Children	Coordinates, RoadwayName		
Instance	<pre><End> <RoadwayName>{1,1}</RoadwayName> <Coordinates>{1,1}</Coordinates> </End></pre>		
Source	<pre><xs:element name="End" type="locationPoint"> <xs:annotation> <xs:documentation>The point on the roadway that indicates the end of the event.</xs:documentation> </xs:annotation> </xs:element></pre>		

Element eventLocation / Area

Annotations	The location for an area event.
Diagram	
Properties	content: complex
Model	AreaType , AreaValue+
Children	AreaType, AreaValue
Instance	<pre><Area> <AreaType>{1,1}</AreaType> <AreaValue>{1,unbounded}</AreaValue> </Area></pre>
Source	<pre><xs:element name="Area"> <xs:annotation> <xs:documentation>The location for an area event.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="AreaType" type="areaEventType"> <xs:annotation> <xs:documentation>The type of area region impacted by an event.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="AreaValue" type="xs:string" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The name/value of the specific area (type indicated by AreaType) impacted by an event.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </xs:element></pre>

Element eventLocation / Area / AreaType

Annotations	The type of area region impacted by an event.										
Diagram											
Type	areaEventType										
Properties	content: simple										
Facets	<table> <tr><td>enumeration</td><td>TOWN</td></tr> <tr><td>enumeration</td><td>COUNTY</td></tr> <tr><td>enumeration</td><td>SUBDISTRICT</td></tr> <tr><td>enumeration</td><td>DISTRICT</td></tr> <tr><td>enumeration</td><td>STATEWIDE</td></tr> </table>	enumeration	TOWN	enumeration	COUNTY	enumeration	SUBDISTRICT	enumeration	DISTRICT	enumeration	STATEWIDE
enumeration	TOWN										
enumeration	COUNTY										
enumeration	SUBDISTRICT										
enumeration	DISTRICT										
enumeration	STATEWIDE										
Source	<pre><xs:element name="AreaType" type="areaEventType"> <xs:annotation> <xs:documentation>The type of area region impacted by an event.</xs:documentation> </xs:annotation> </xs:element></pre>										

Element eventLocation / Area / AreaValue

Annotations	The name/value of the specific area (type indicated by AreaType) impacted by an event.				
Diagram					
Type	xs:string				
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>maxOccurs:</td><td>unbounded</td></tr> </table>	content:	simple	maxOccurs:	unbounded
content:	simple				
maxOccurs:	unbounded				
Source	<pre><xs:element name="AreaValue" type="xs:string" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The name/value of the specific area (type indicated by AreaType) impacted by an event.</xs:documentation> </xs:annotation> </xs:element></pre>				

Element laneInfo / Direction

Annotations	<p>The direction for each lane on the start roadway, including both direction of travel for bidirection roadways; e.g. NNN from three northbound lanes and SSSNNN for three southbound lanes and three northbound lanes. The convention is:</p> <ul style="list-style-type: none"> - For northbound lanes, the first letter indicates the leftmost travel lane, which is closest to the median; - For southbound lanes, the first letter indicates the rightmost lane, which is closest to entry and exit ramps; - For eastbound lanes, the first letter indicates the leftmost travel lane, which is closest to the median; - For westbound lanes, the first letter indicates the rightmost lane, which is closest to entry and exit ramps. 		
Diagram			
Type	xs:string		
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> </table>	content:	simple
content:	simple		
Source	<pre><xs:element name="Direction" type="xs:string"> <xs:annotation> <xs:documentation>The direction for each lane on the start roadway, including both direction of travel for bidirection roadways; e.g. NNN from three northbound lanes and SSSNNN for three southbound lanes and three northbound lanes. The convention is: - For northbound lanes, the first letter indicates the leftmost travel lane, which is closest to the median; - For southbound lanes, the first letter indicates the rightmost lane, which is closest to entry and exit ramps; - For eastbound lanes, the first letter indicates the leftmost travel lane, which is closest to the median; - For westbound lanes, the first letter indicates the rightmost lane, which is closest to entry and exit ramps.</xs:documentation> </xs:annotation> </xs:element></pre>		

Element laneInfo / LanesAffected

Annotations	Lanes affected, where open lanes will be represented by X and closed lanes by O. For example, if the rightmost two lanes are closed, then the string will be OOOOXX.
-------------	--

Diagram	
Type	xs:string
Properties	content: simple
Source	<pre><xs:element name="LanesAffected" type="xs:string"> <xs:annotation> <xs:documentation>Lanes affected, where open lanes will be represented by X and closed lanes by O. For example, if the rightmost two lanes are closed, then the string will be 0000XX.</xs:documentation> </xs:annotation> </xs:element></pre>

Element eventOccurrence / StartDateTime

Annotations	The start Date/Time for the occurrence.
Diagram	
Type	xs:dateTime
Properties	content: simple
Source	<pre><xs:element name="StartDateTime" type="xs:dateTime"> <xs:annotation> <xs:documentation>The start Date/Time for the occurrence.</xs:documentation> </xs:annotation> </xs:element></pre>

Element eventOccurrence / EndDateTime

Annotations	The end Date/Time for the occurrence.
Diagram	
Type	xs:dateTime
Properties	content: simple
Source	<pre><xs:element name="EndDateTime" type="xs:dateTime"> <xs:annotation> <xs:documentation>The end Date/Time for the occurrence.</xs:documentation> </xs:annotation> </xs:element></pre>

Element event / Name

Annotations	Short name given to an event.
Diagram	

Type	xs:string
Properties	content: simple
Source	<pre><xs:element name="Name" type="xs:string"> <xs:annotation> <xs:documentation>Short name given to an event.</xs:documentation> </xs:annotation> </xs:element></pre>

Element event / CreatedAt

Annotations	Date/Time an event was created.
Diagram	
Type	xs:dateTime
Properties	content: simple
Source	<pre><xs:element name="CreatedAt" type="xs:dateTime"> <xs:annotation> <xs:documentation>Date/Time an event was created.</xs:documentation> </xs:annotation> </xs:element></pre>

Element event / ConfirmedAt

Annotations	Date/Time an event was confirmed.
Diagram	
Type	xs:dateTime
Properties	content: simple
Source	<pre><xs:element name="ConfirmedAt" type="xs:dateTime"> <xs:annotation> <xs:documentation>Date/Time an event was confirmed.</xs:documentation> </xs:annotation> </xs:element></pre>

Element event / UpdatedAt

Annotations	Date/Time an event was updated.
Diagram	
Type	xs:dateTime
Properties	content: simple
Source	<pre><xs:element name="UpdatedAt" type="xs:dateTime"> <xs:annotation> <xs:documentation>Date/Time an event was updated.</xs:documentation> </xs:annotation> </xs:element></pre>

Element event / StartDate

Annotations	The start Date/Time for an event.
-------------	-----------------------------------

Diagram	
Type	xs:dateTime
Properties	content: simple
Source	<pre><xs:element name="StartDate" type="xs:dateTime"> <xs:annotation> <xs:documentation>The start Date/Time for an event.</xs:documentation> </xs:annotation> </xs:element></pre>

Element event / Location

Annotations	The location defined for an event.
Diagram	
Type	eventLocation
Properties	content: complex
Model	Point Range Area
Children	Area, Point, Range
Instance	<pre><Location> <Point>{1,1}</Point> <Range>{1,1}</Range> <Area>{1,1}</Area> </Location></pre>
Source	<pre><xs:element name="Location" type="eventLocation"> <xs:annotation> <xs:documentation>The location defined for an event.</xs:documentation> </xs:annotation> </xs:element></pre>

Element event / Status

Annotations	The current status of an event.
Diagram	
Type	eventStatus
Properties	content: simple
Facets	enumeration ACTIVE

	enumeration FUTURE
	enumeration TERMINATED
Source	<pre><xs:element name="Status" type="eventStatus"> <xs:annotation> <xs:documentation>The current status of an event.</xs:documentation> </xs:annotation> </xs:element></pre>

Element event / LaneInfo

Annotations	Parent element for lane-level information for the location of an event.
Diagram	
Type	laneInfo
Properties	content: complex minOccurs: 0
Model	Direction , LanesAffected
Children	Direction, LanesAffected
Instance	<pre><LaneInfo> <Direction>{1,1}</Direction> <LanesAffected>{1,1}</LanesAffected> </LaneInfo></pre>
Source	<pre><xs:element name="LaneInfo" type="laneInfo" minOccurs="0"> <xs:annotation> <xs:documentation>Parent element for lane-level information for the location of an event.</xs:documentation> </xs:annotation> </xs:element></pre>

Element specialEventSpecifics / SpecialEventCharacteristics

Annotations	The characteristics specific to a Special Event.
-------------	--

Diagram	<p>The diagram shows a UML class-like structure for the <code>SpecialEventCharacteristics</code> type. It is a base type (indicated by a minus sign in a circle) for three alternative types: <code>stadiumArenaEventType</code>, <code>outdoorEventType</code>, and <code>athleticEventType</code>. Each alternative type has a test condition: <code>@subtype = 'STADIUM/ARENA_EVENT'</code>, <code>@subtype = 'OUTDOOR_EVENT'</code>, and <code>@subtype = 'ATHLETIC_EVENT'</code> respectively. The <code>SpecialEventCharacteristics</code> type itself has a type of <code>xs:string</code>. A note explains that <code>xs:string</code> is a built-in primitive type representing character strings in XML.</p>															
Type	xs:string															
Properties	<table><tr><td>content:</td><td>simple</td></tr><tr><td>minOccurs:</td><td>0</td></tr></table>	content:	simple	minOccurs:	0											
content:	simple															
minOccurs:	0															
Type Alternatives	<table><tr><th>Type</th><th>Test</th><th>XPath default namespace</th></tr><tr><td>stadiumArenaEventType</td><td>@subtype = 'STADIUM/ARENA_EVENT'</td><td></td></tr><tr><td>outdoorEventType</td><td>@subtype = 'OUTDOOR_EVENT'</td><td></td></tr><tr><td>athleticEventType</td><td>@subtype = 'ATHLETIC_EVENT'</td><td></td></tr><tr><td>xs:anyAtomicType [Default Type]</td><td></td><td></td></tr></table>	Type	Test	XPath default namespace	stadiumArenaEventType	@subtype = 'STADIUM/ARENA_EVENT'		outdoorEventType	@subtype = 'OUTDOOR_EVENT'		athleticEventType	@subtype = 'ATHLETIC_EVENT'		xs:anyAtomicType [Default Type]		
Type	Test	XPath default namespace														
stadiumArenaEventType	@subtype = 'STADIUM/ARENA_EVENT'															
outdoorEventType	@subtype = 'OUTDOOR_EVENT'															
athleticEventType	@subtype = 'ATHLETIC_EVENT'															
xs:anyAtomicType [Default Type]																
Source	<pre><xs:element name="SpecialEventCharacteristics" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>The characteristics specific to a Special Event.</xs:documentation> </xs:annotation> <xs:alternative test="@subtype = 'STADIUM/ARENA_EVENT'" type="stadiumArenaEventType" /> <xs:alternative test="@subtype = 'OUTDOOR_EVENT'" type="outdoorEventType" /> <xs:alternative test="@subtype = 'ATHLETIC_EVENT'" type="athleticEventType" /> </xs:element></pre>															

Element plannedEvent / EndDate

Annotations	The end Date/Time for a planned event.
Diagram	
Type	xs:dateTime
Properties	content: simple
Source	<pre><xs:element name="EndDate" type="xs:dateTime"> <xs:annotation> <xs:documentation>The end Date/Time for a planned event.</xs:documentation> </xs:annotation> </xs:element></pre>

Element plannedEvent / TypeSpecific

Annotations	Details specific to the type of Planned Event.
-------------	--

Diagram	<p>The diagram shows a 'TypeSpecific' box with a callout 'Details specific to the type of Planned Event.' pointing to it. To its right is a 'Type Alternatives' box containing two entries: 'constructionMaintenanceSpecifics' with test '@type = 'CONSTRUCTION/MAINTENANCE'' and 'specialEventSpecifics' with test '@type = 'SPECIAL_EVENT''. Both entries have a '+' icon to their right.</p>											
Type Alternatives	<table><thead><tr><th>Type</th><th>Test</th><th>XPath default namespace</th></tr></thead><tbody><tr><td>constructionMaintenanceSpecifics</td><td>@type = 'CONSTRUCTION/MAINTENANCE'</td><td></td></tr><tr><td>specialEventSpecifics</td><td>@type = 'SPECIAL_EVENT'</td><td></td></tr></tbody></table>	Type	Test	XPath default namespace	constructionMaintenanceSpecifics	@type = 'CONSTRUCTION/MAINTENANCE'		specialEventSpecifics	@type = 'SPECIAL_EVENT'			
Type	Test	XPath default namespace										
constructionMaintenanceSpecifics	@type = 'CONSTRUCTION/MAINTENANCE'											
specialEventSpecifics	@type = 'SPECIAL_EVENT'											
Source	<pre><xs:element name="TypeSpecific"> <xs:annotation> <xs:documentation>Details specific to the type of Planned Event.</xs:documentation> </xs:annotation> <xs:alternative test="@type = 'CONSTRUCTION/MAINTENANCE'" type="constructionMaintenanceSpecifics"/> <xs:alternative test="@type = 'SPECIAL_EVENT'" type="specialEventSpecifics"/> </xs:element></pre>											

Element plannedEvent / Occurrences

Annotations	A list of all occurrences for a single event. Up to 20 per event (arbitrary cap).		
Diagram			
Properties	content:	complex	
Model	Occurrence		
Children	Occurrence		
Instance	<pre><Occurrences> <Occurrence>{1,1}</Occurrence> </Occurrences></pre>		
Source	<pre><xs:element name="Occurrences"> <xs:annotation> <xs:documentation>A list of all occurrences for a single event. Up to 20 per event (arbitrary cap).</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence maxOccurs="20"> <xs:element name="Occurrence" type="eventOccurrence"> <xs:annotation> <xs:documentation>A single occurrence of a reurring event.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </xs:element></pre>		

Element plannedEvent / Occurrences / Occurrence

Annotations	A single occurrence of a reurring event.
-------------	--

Diagram	
Type	eventOccurrence
Properties	content: complex
Model	StartDateTime , EndDateTime
Children	EndDateTime, StartDateTime
Instance	<pre><Occurrence> <StartDateTime>{1,1}</StartDateTime> <EndDateTime>{1,1}</EndDateTime> </Occurrence></pre>
Source	<pre><xs:element name="Occurrence" type="eventOccurrence"> <xs:annotation> <xs:documentation>A single occurrence of a reurring event.</xs:documentation> </xs:annotation> </xs:element></pre>

Element advisoryWatchWarningCharacteristics / ID

Annotations	An identifier for the specific weather category, event, and location.
Diagram	
Type	xs:integer
Properties	content: simple
Source	<pre><xs:element name="ID" type="xs:integer"> <xs:annotation> <xs:documentation>An identifier for the specific weather category, event, and location.</xs:documentation> </xs:annotation> </xs:element></pre>

Element advisoryWatchWarningCharacteristics / Category

Annotations	The category of the advisory/watch/warning, (either ADVISORY, WATCH, or WARNING).				
Diagram					
Type	restriction of xs:string				
Properties	content: simple				
Facets	<table> <tr> <td>enumeration</td><td>ADVISORY</td></tr> <tr> <td>enumeration</td><td>WATCH</td></tr> </table>	enumeration	ADVISORY	enumeration	WATCH
enumeration	ADVISORY				
enumeration	WATCH				

	enumeration WARNING
Source	<pre> <xs:element name="Category"> <xs:annotation> <xs:documentation>The category of the advisory/watch/warning, (either ADVISORY, WATCH, or WARNING).</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="ADVISORY"/> <xs:enumeration value="WATCH"/> <xs:enumeration value="WARNING"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element advisoryWatchWarningCharacteristics / EventType

Annotations	The type of weather event (e.g. Tornado, Hurricane).
Diagram	
Type	xs:string
Properties	content: simple
Source	<pre> <xs:element name="EventType" type="xs:string"> <xs:annotation> <xs:documentation>The type of weather event (e.g. Tornado, Hurricane).</xs:documentation> </xs:annotation> </xs:element> </pre>

Element advisoryWatchWarningCharacteristics / Location

Annotations	The specified location of the advistory/watch/warning. This could be a county name, 'STATEWIDE', or many county names.
Diagram	
Properties	maxOccurs: unbounded
Source	<pre> <xs:element name="Location" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The specified location of the advistory/watch/warning. This could be a county name, 'STATEWIDE', or many county names.</xs:documentation> </xs:annotation> </xs:element> </pre>

Element advisoryWatchWarningCharacteristics / StartDateTime

Annotations	The specified start time for the advisory/watch/warning.
Diagram	
Type	xs:dateTime
Properties	content: simple
Source	<pre> <xs:element name="StartDateTime" type="xs:dateTime"> </pre>


```
<xs:annotation>
  <xs:documentation>The specified start time for the advisory/watch/warning.</xs:documentation>
</xs:annotation>
</xs:element>
```

Element advisoryWatchWarningCharacteristics / EndDateTime

Annotations	The specified end time for the advisory/watch/warning.
Diagram	
Type	xs:dateTime
Properties	content: simple
Source	<pre><xs:element name="EndDateTime" type="xs:dateTime"> <xs:annotation> <xs:documentation>The specified end time for the advisory/watch/warning.</xs:documentation> </xs:annotation> </xs:element></pre>

Element roadwayTrafficCharacteristics / HasSpeedRestriction

Annotations	Specifies if there is a speed restriction associated with the event.
Diagram	
Type	xs:boolean
Properties	content: simple
Source	<pre><xs:element name="HasSpeedRestriction" type="xs:boolean"> <xs:annotation> <xs:documentation>Specifies if there is a speed restriction associated with the event.</xs:documentation> </xs:annotation> </xs:element></pre>

Element roadwayTrafficCharacteristics / IsWithinWorkZone

Annotations	Specifies if the event is within a work zone.
Diagram	
Type	xs:boolean
Properties	content: simple
Source	<pre><xs:element name="IsWithinWorkZone" type="xs:boolean"> <xs:annotation> <xs:documentation>Specifies if the event is within a work zone.</xs:documentation> </xs:annotation> </xs:element></pre>

Element roadwayTrafficCharacteristics / IsBoreClosureRequired

Annotations	Specifies if there is a bore closure required for the event.
-------------	--

Diagram	
Type	xs:boolean
Properties	content: simple
Source	<pre><xs:element name="IsBoreClosureRequired" type="xs:boolean"> <xs:annotation> <xs:documentation>Specifies if there is a bore closure required for the event.</ </xs:annotation> </xs:element></pre>

Element roadwayTrafficSpecifics / Subtype

Annotations	The ascribed sub-type of the ROADWAY/TRAFFIC Unplanned Event.																	
Diagram																		
Type	xs:string																	
Properties	content:	simple																
Type Alternatives	<table><thead><tr><th>Type</th><th>Test</th><th>XPath default namespace</th></tr></thead><tbody><tr><td>roadwayTrafficFireSubtype</td><td>@type = 'FIRE'</td><td></td></tr><tr><td>roadwayTrafficRoadwayDamageSubtype</td><td>@type = 'ROADWAY_DAMAGE'</td><td></td></tr><tr><td>roadwayTrafficRoadwayObstructionSubtype</td><td>@type = 'ROADWAY_OBSTRUCTION'</td><td></td></tr><tr><td>xs:anyAtomicType [Default Type]</td><td></td><td></td></tr></tbody></table>	Type	Test	XPath default namespace	roadwayTrafficFireSubtype	@type = 'FIRE'		roadwayTrafficRoadwayDamageSubtype	@type = 'ROADWAY_DAMAGE'		roadwayTrafficRoadwayObstructionSubtype	@type = 'ROADWAY_OBSTRUCTION'		xs:anyAtomicType [Default Type]				
Type	Test	XPath default namespace																
roadwayTrafficFireSubtype	@type = 'FIRE'																	
roadwayTrafficRoadwayDamageSubtype	@type = 'ROADWAY_DAMAGE'																	
roadwayTrafficRoadwayObstructionSubtype	@type = 'ROADWAY_OBSTRUCTION'																	
xs:anyAtomicType [Default Type]																		
Source	<pre><xs:element name="Subtype" type="xs:string"> <xs:annotation> <xs:documentation>The ascribed sub-type of the ROADWAY/TRAFFIC Unplanned Event.</ </xs:annotation> <xs:documentation> </xs:documentation> <xs:alternative test="@type = 'FIRE'" type="roadwayTrafficFireSubtype"/> <xs:alternative test="@type = 'ROADWAY_DAMAGE'" type="roadwayTrafficRoadwayDamageSubtype"/> <xs:alternative test="@type = 'ROADWAY_OBSTRUCTION'" type="roadwayTrafficRoadwayObstructionSubtype"/> </xs:element></pre>																	

Element roadwayTrafficSpecifics / Characteristics

Annotations	The specific characteristics of a ROADWAY/TRAFFIC Unplanned Event.
-------------	--

Diagram	
Type	roadwayTrafficCharacteristics
Properties	content: complex minOccurs: 0
Model	HasSpeedRestriction , IsWithinWorkZone , IsBoreClosureRequired
Children	HasSpeedRestriction, IsBoreClosureRequired, IsWithinWorkZone
Instance	<pre> <Characteristics> <HasSpeedRestriction>{1,1}</HasSpeedRestriction> <IsWithinWorkZone>{1,1}</IsWithinWorkZone> <IsBoreClosureRequired>{1,1}</IsBoreClosureRequired> </Characteristics> </pre>
Source	<pre> <xs:element name="Characteristics" type="roadwayTrafficCharacteristics" minOccurs="0"> <xs:annotation> <xs:documentation>The specific characteristics of a ROADWAY/TRAFFIC Unplanned Event.</ </xs:annotation> </xs:element> </pre>

Element actsOfNatureSpecifics / Characteristics

Annotations	The specific characteristics of an ACTS_OF_NATURE Unplanned Event.
Diagram	

Type	advisoryWatchWarningCharacteristics
Properties	<div>content: complex</div> <div>minOccurs: 0</div>
Model	ID , Category , EventType , Location+ , StartDateTime , EndDateTime
Children	Category, EndDateTime, EventType, ID, Location, StartDateTime
Instance	<pre><Characteristics> <ID>{1,1}</ID> <Category>{1,1}</Category> <EventType>{1,1}</EventType> <Location>{1,unbounded}</Location> <StartDateTime>{1,1}</StartDateTime> <EndDateTime>{1,1}</EndDateTime> </Characteristics></pre>
Source	<pre><xs:element name="Characteristics" type="advisoryWatchWarningCharacteristics" minOccurs="0"> <xs:annotation> <xs:documentation>The specific characteristics of an ACTS_OF_NATURE Unplanned Event.</xs:documentation> </xs:annotation> </xs:element></pre>

Element unplannedEvent / CategorySpecific

Annotations	Details specific to the category of the Unplanned Event.											
Diagram	<p>The diagram illustrates the structure of the <code>CategorySpecific</code> element. It is a container for details specific to the category of the Unplanned Event. The details are organized into a 'Type Alternatives' section, which contains two alternative types: <code>roadwayTrafficSpecifics</code> and <code>actsOfNatureSpecifics</code>. Each type has a test condition: <code>@category = 'ROADWAY/TRAFFIC'</code> for <code>roadwayTrafficSpecifics</code> and <code>@category = 'ACTS_OF_NATURE'</code> for <code>actsOfNatureSpecifics</code>. The 'Type Alternatives' section is marked with a minus sign and a question mark, indicating it is an alternative group.</p>											
Type Alternatives	<table><thead><tr><th>Type</th><th>Test</th><th>XPath default namespace</th></tr></thead><tbody><tr><td>roadwayTrafficSpecifics</td><td>@category = 'ROADWAY/TRAFFIC'</td><td></td></tr><tr><td>actsOfNatureSpecifics</td><td>@category = 'ACTS_OF_NATURE'</td><td></td></tr></tbody></table>	Type	Test	XPath default namespace	roadwayTrafficSpecifics	@category = 'ROADWAY/TRAFFIC'		actsOfNatureSpecifics	@category = 'ACTS_OF_NATURE'			
Type	Test	XPath default namespace										
roadwayTrafficSpecifics	@category = 'ROADWAY/TRAFFIC'											
actsOfNatureSpecifics	@category = 'ACTS_OF_NATURE'											
Source	<pre><xs:element name="CategorySpecific"> <xs:annotation> <xs:documentation>Details specific to the category of the Unplanned Event.</xs:documentation> </xs:annotation> <xs:alternative test="@category = 'ROADWAY/TRAFFIC'" type="roadwayTrafficSpecifics"/> <xs:alternative test="@category = 'ACTS_OF_NATURE'" type="actsOfNatureSpecifics"/> </xs:element></pre>											

Element EventsFeed

Annotations	Root element for the feed.
Diagram	
Properties	content: complex
Model	UpdateTimestamp , Events
Children	Events, UpdateTimestamp
Instance	<pre><EventsFeed> <UpdateTimestamp>{1,1}</UpdateTimestamp></pre>

	<pre> <Events>{1,1}</Events> </EventsFeed> </pre>
Source	<pre> <xs:element name="EventsFeed"> <xs:annotation> <xs:documentation>Root element for the feed.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="UpdateTimestamp" type="xs:dateTime"> <xs:annotation> <xs:documentation>Date/Time when this instance of the feed was published.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Events"> <xs:annotation> <xs:documentation>Includes all published planned/unplanned events.</xs:documentation> </xs:annotation> <xs:complexType> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element name="PlannedEvent" type="plannedEvent"> <xs:annotation> <xs:documentation>A planned event that affects the roadway - e.g. planned construction work.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="UnplannedEvent" type="unplannedEvent"> <xs:annotation> <xs:documentation>An unplanned event that is affecting the roadway - e.g. a crash.</xs:documentation> </xs:annotation> </xs:element> </xs:choice> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </pre>

Element EventsFeed / UpdateTimestamp

Annotations	Date/Time when this instance of the feed was published.
Diagram	
Type	xs:dateTime
Properties	content: simple
Source	<pre> <xs:element name="UpdateTimestamp" type="xs:dateTime"> <xs:annotation> <xs:documentation>Date/Time when this instance of the feed was published.</xs:documentation> </xs:annotation> </xs:element> </pre>

Element EventsFeed / Events

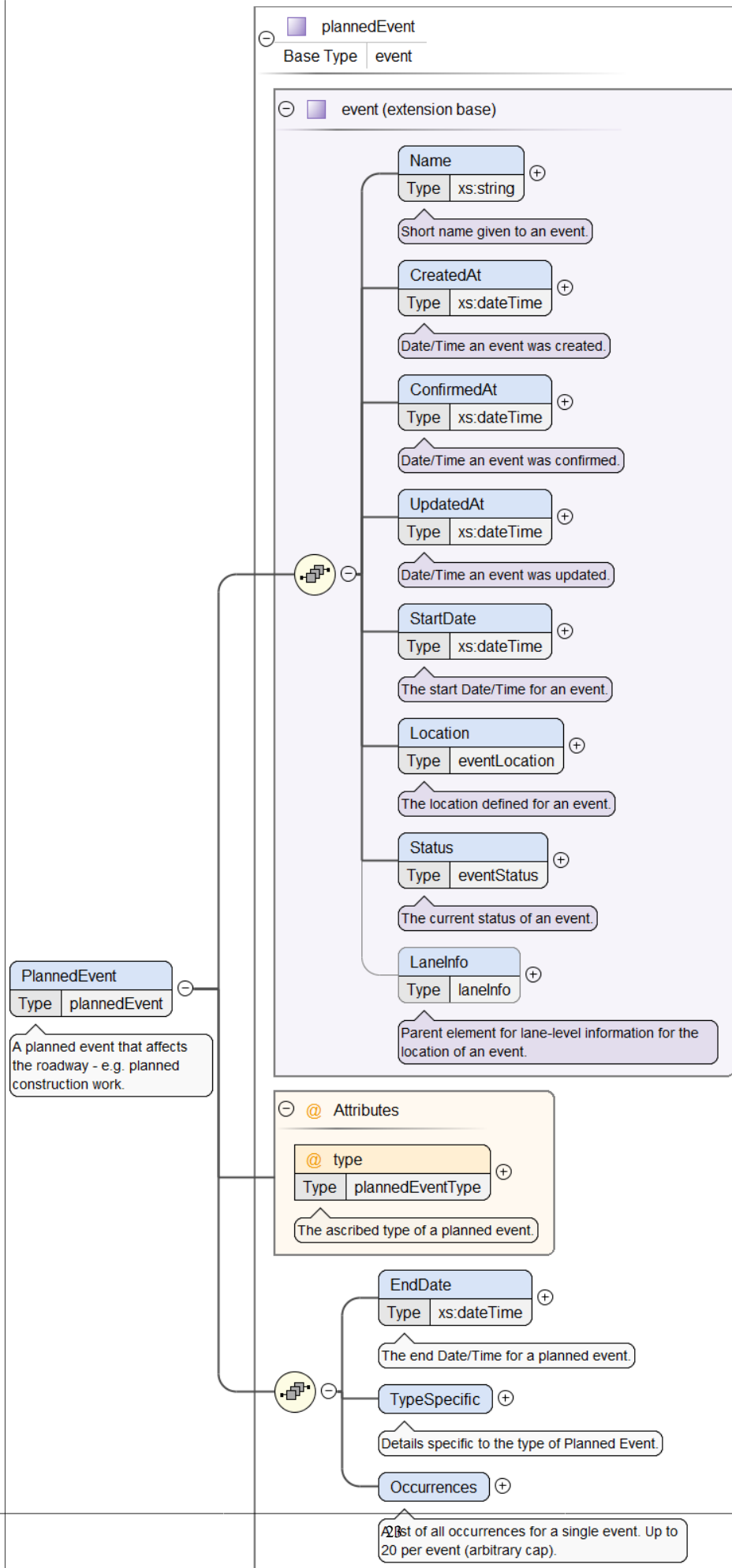
Annotations	Includes all published planned/unplanned events.
Diagram	

Properties	content: complex
Model	PlannedEvent UnplannedEvent
Children	PlannedEvent, UnplannedEvent
Instance	<pre> <Events> <PlannedEvent type="">{1,1}</PlannedEvent> <UnplannedEvent category="">{1,1}</UnplannedEvent> </Events> </pre>
Source	<pre> <xs:element name="Events"> <xs:annotation> <xs:documentation>Includes all published planned/unplanned events.</xs:documentation> </xs:annotation> <xs:complexType> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element name="PlannedEvent" type="plannedEvent"> <xs:annotation> <xs:documentation>A planned event that affects the roadway - e.g. planned construction work.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="UnplannedEvent" type="unplannedEvent"> <xs:annotation> <xs:documentation>An unplanned event that is affecting the roadway - e.g. a crash.</ xs:documentation> </xs:annotation> </xs:element> </xs:choice> </xs:complexType> </xs:element> </pre>

Element EventsFeed / Events / PlannedEvent

Annotations	A planned event that affects the roadway - e.g. planned construction work.
-------------	--

Diagram

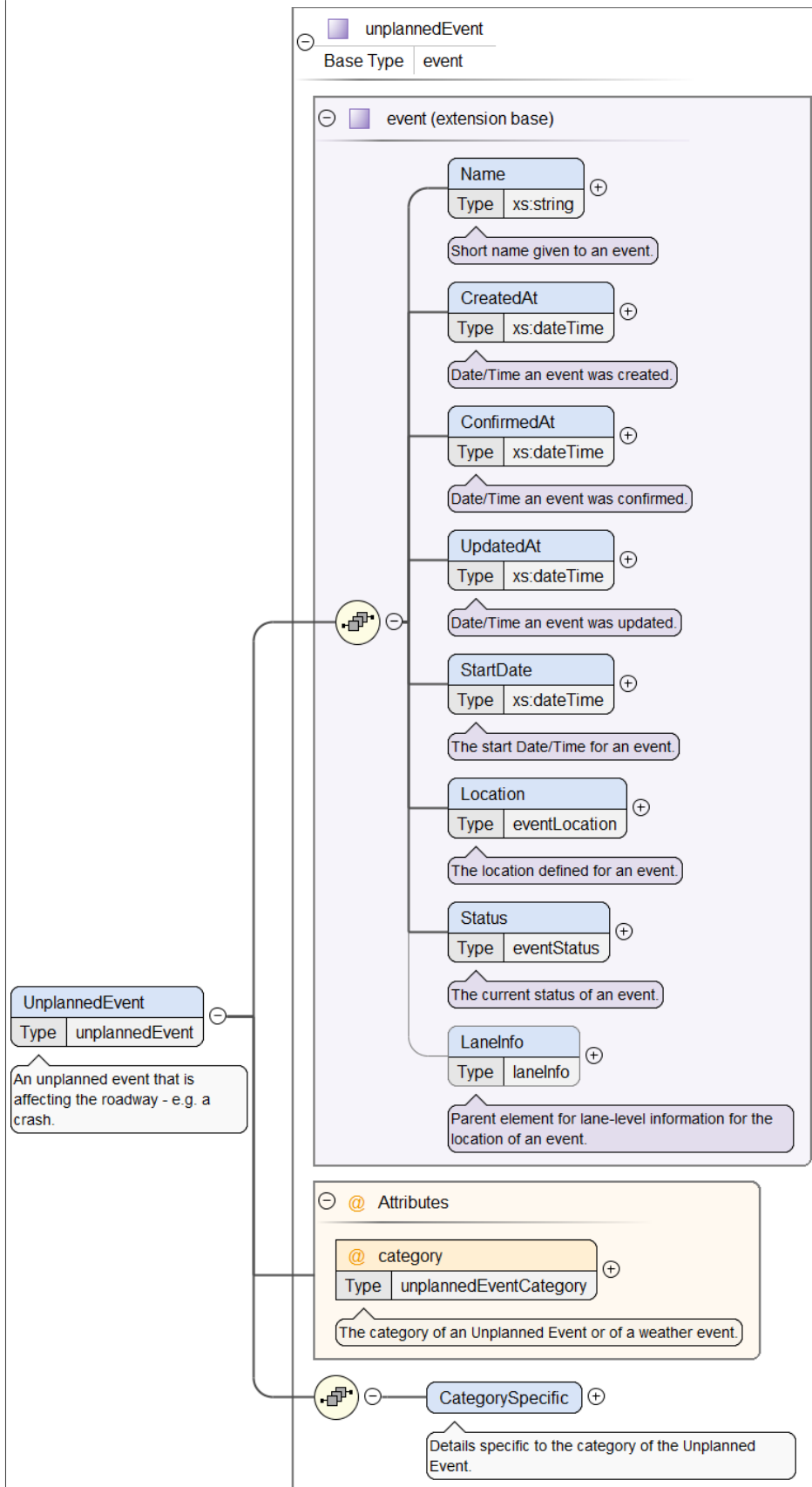


Type	plannedEvent			
Type hierarchy	<ul style="list-style-type: none"> event <ul style="list-style-type: none"> plannedEvent 			
Properties	content: complex			
Model	Name , CreatedAt , ConfirmedAt , UpdatedAt , StartDate , Location , Status , LaneInfo{0,1} , EndDate , TypeSpecific , Occurrences			
Children	ConfirmedAt, CreatedAt, EndDate, LaneInfo, Location, Name, Occurrences, StartDate, Status, TypeSpecific, UpdatedAt			
Instance	<pre> <PlannedEvent type=""> <Name>{1,1}</Name> <CreatedAt>{1,1}</CreatedAt> <ConfirmedAt>{1,1}</ConfirmedAt> <UpdatedAt>{1,1}</UpdatedAt> <StartDate>{1,1}</StartDate> <Location>{1,1}</Location> <Status>{1,1}</Status> <LaneInfo>{0,1}</LaneInfo> <EndDate>{1,1}</EndDate> <TypeSpecific>{1,1}</TypeSpecific> <Occurrences>{1,1}</Occurrences> </PlannedEvent> </pre>			
Attributes	QName	Type	Use	
	type	plannedEventType	required	
	The ascribed type of a planned event.			
Source	<pre> <xs:element name="PlannedEvent" type="plannedEvent"> <xs:annotation> <xs:documentation>A planned event that affects the roadway - e.g. planned construction work.</xs:documentation> </xs:annotation> </xs:element> </pre>			

Element EventsFeed / Events / UnplannedEvent

Annotations	An unplanned event that is affecting the roadway - e.g. a crash.
-------------	--

Diagram



Type	unplannedEvent
Type hierarchy	<ul style="list-style-type: none"> event unplannedEvent

Properties	content: complex			
Model	Name , CreatedAt , ConfirmedAt , UpdatedAt , StartDate , Location , Status , LaneInfo{0,1} , CategorySpecific			
Children	CategorySpecific, ConfirmedAt, CreatedAt, LaneInfo, Location, Name, StartDate, Status, UpdatedAt			
Instance	<pre><UnplannedEvent category=""> <Name>{1,1}</Name> <CreatedAt>{1,1}</CreatedAt> <ConfirmedAt>{1,1}</ConfirmedAt> <UpdatedAt>{1,1}</UpdatedAt> <StartDate>{1,1}</StartDate> <Location>{1,1}</Location> <Status>{1,1}</Status> <LaneInfo>{0,1}</LaneInfo> <CategorySpecific>{1,1}</CategorySpecific> </UnplannedEvent></pre>			
Attributes	QName	Type	Use	
	category	unplannedEventCategory	required	
		The category of an Unplanned Event or of a weather event.		
Source	<pre><xs:element name="UnplannedEvent" type="unplannedEvent"> <xs:annotation> <xs:documentation>An unplanned event that is affecting the roadway - e.g. a crash.</ </xs:annotation> <xs:documentation> </xs:documentation> </xs:element></pre>			

Simple Type(s)

Simple Type eventStatus

Annotations	<p>ACTIVE: The event is currently active.</p> <p>FUTURE: The event is scheduled to occur in the future.</p> <p>TERMINATED: The event has been terminated.</p>
Diagram	
Type	restriction of xs:string
Facets	enumeration ACTIVE
	enumeration FUTURE
	enumeration TERMINATED
Used by	Element event/Status
Source	<pre><xs:simpleType name="eventStatus"> <xs:annotation> <xs:documentation>ACTIVE: The event is currently active. FUTURE: The event is scheduled to occur in the future. TERMINATED: The event has been terminated.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="ACTIVE"/> <xs:enumeration value="FUTURE"/> <xs:enumeration value="TERMINATED"/> </xs:restriction> </xs:simpleType></pre>

Simple Type areaEventType

Annotations	<p>Subdistricts defined at: https://geo-massdot.opendata.arcgis.com/datasets/2bd2e8188d2941c692ca0b882cbd9aea_0</p> <p>Districts defined at: https://geo-massdot.opendata.arcgis.com/datasets/3399393a72f3424082dc5974f001cad8_0</p>
-------------	--

Diagram											
Type	restriction of xs:string										
Facets	<table> <tr><td>enumeration</td><td>TOWN</td></tr> <tr><td>enumeration</td><td>COUNTY</td></tr> <tr><td>enumeration</td><td>SUBDISTRICT</td></tr> <tr><td>enumeration</td><td>DISTRICT</td></tr> <tr><td>enumeration</td><td>STATEWIDE</td></tr> </table>	enumeration	TOWN	enumeration	COUNTY	enumeration	SUBDISTRICT	enumeration	DISTRICT	enumeration	STATEWIDE
enumeration	TOWN										
enumeration	COUNTY										
enumeration	SUBDISTRICT										
enumeration	DISTRICT										
enumeration	STATEWIDE										
Used by	Element eventLocation/Area/AreaType										
Source	<pre> <xs:simpleType name="areaEventType"> <xs:annotation> <xs:documentation>Subdistricts defined at: https://geo-massdot.opendata.arcgis.com/datasets/2bd2e8188d2941c692ca0b882cbd9aea_0 Districts defined at: https://geo-massdot.opendata.arcgis.com/datasets/3399393a72f3424082dc5974f001cad8_0</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="TOWN"/> <xs:enumeration value="COUNTY"/> <xs:enumeration value="SUBDISTRICT"/> <xs:enumeration value="DISTRICT"/> <xs:enumeration value="STATEWIDE"/> </xs:restriction> </xs:simpleType> </pre>										

Simple Type plannedEventType

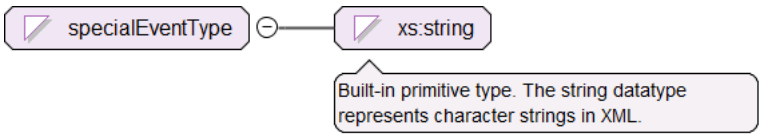
Diagram					
Type	restriction of xs:string				
Facets	<table> <tr><td>enumeration</td><td>CONSTRUCTION/MAINTENANCE</td></tr> <tr><td>enumeration</td><td>SPECIAL_EVENT</td></tr> </table>	enumeration	CONSTRUCTION/MAINTENANCE	enumeration	SPECIAL_EVENT
enumeration	CONSTRUCTION/MAINTENANCE				
enumeration	SPECIAL_EVENT				
Used by	Attribute plannedEvent/@type				
Source	<pre> <xs:simpleType name="plannedEventType"> <xs:restriction base="xs:string"> <xs:enumeration value="CONSTRUCTION/MAINTENANCE"/> <xs:enumeration value="SPECIAL_EVENT"/> </xs:restriction> </xs:simpleType> </pre>				

Simple Type constructionMaintenanceType

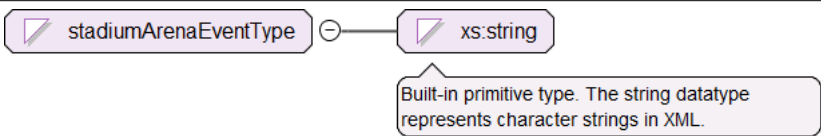
Diagram											
Type	restriction of xs:string										
Facets	<table> <tr><td>enumeration</td><td>ROADWAY_ACTIVITY</td></tr> <tr><td>enumeration</td><td>BRIDGE_ACTIVITY</td></tr> <tr><td>enumeration</td><td>TUNNEL_ACTIVITY</td></tr> <tr><td>enumeration</td><td>FACILITY_ACTIVITY</td></tr> <tr><td>enumeration</td><td>UTILITY_ACTIVITY</td></tr> </table>	enumeration	ROADWAY_ACTIVITY	enumeration	BRIDGE_ACTIVITY	enumeration	TUNNEL_ACTIVITY	enumeration	FACILITY_ACTIVITY	enumeration	UTILITY_ACTIVITY
enumeration	ROADWAY_ACTIVITY										
enumeration	BRIDGE_ACTIVITY										
enumeration	TUNNEL_ACTIVITY										
enumeration	FACILITY_ACTIVITY										
enumeration	UTILITY_ACTIVITY										

Used by	Attribute constructionMaintenanceSpecifics/@subtype
Source	<pre> <xs:simpleType name="constructionMaintenanceType"> <xs:restriction base="xs:string"> <xs:enumeration value="ROADWAY_ACTIVITY" /> <xs:enumeration value="BRIDGE_ACTIVITY" /> <xs:enumeration value="TUNNEL_ACTIVITY" /> <xs:enumeration value="FACILITY_ACTIVITY" /> <xs:enumeration value="UTILITY_ACTIVITY" /> </xs:restriction> </xs:simpleType> </pre>

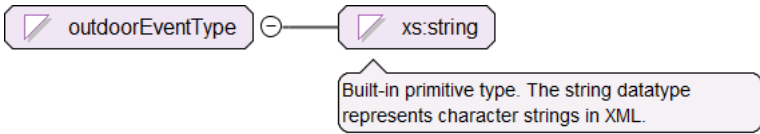
Simple Type specialEventType

Diagram															
Type	restriction of xs:string														
Facets	<table> <tr><td>enumeration</td><td>STADIUM/ARENA_EVENT</td></tr> <tr><td>enumeration</td><td>OUTDOOR_EVENT</td></tr> <tr><td>enumeration</td><td>VIP_VISIT</td></tr> <tr><td>enumeration</td><td>ATHLETIC_EVENT</td></tr> <tr><td>enumeration</td><td>FUNERAL_PROCESSION</td></tr> <tr><td>enumeration</td><td>TRAINING/DRILL</td></tr> <tr><td>enumeration</td><td>OTHER</td></tr> </table>	enumeration	STADIUM/ARENA_EVENT	enumeration	OUTDOOR_EVENT	enumeration	VIP_VISIT	enumeration	ATHLETIC_EVENT	enumeration	FUNERAL_PROCESSION	enumeration	TRAINING/DRILL	enumeration	OTHER
enumeration	STADIUM/ARENA_EVENT														
enumeration	OUTDOOR_EVENT														
enumeration	VIP_VISIT														
enumeration	ATHLETIC_EVENT														
enumeration	FUNERAL_PROCESSION														
enumeration	TRAINING/DRILL														
enumeration	OTHER														
Used by	Attribute specialEventSpecifics/@subtype														
Source	<pre> <xs:simpleType name="specialEventType"> <xs:restriction base="xs:string"> <xs:enumeration value="STADIUM/ARENA_EVENT" /> <xs:enumeration value="OUTDOOR_EVENT" /> <xs:enumeration value="VIP_VISIT" /> <xs:enumeration value="ATHLETIC_EVENT" /> <xs:enumeration value="FUNERAL_PROCESSION" /> <xs:enumeration value="TRAINING/DRILL" /> <xs:enumeration value="OTHER" /> </xs:restriction> </xs:simpleType> </pre>														

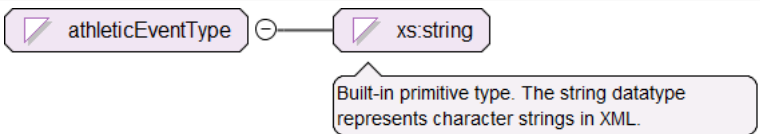
Simple Type stadiumArenaEventType

Diagram									
Type	restriction of xs:string								
Facets	<table> <tr><td>enumeration</td><td>PAVILION_EVENT</td></tr> <tr><td>enumeration</td><td>GILLETTE_STADIUM_EVENT</td></tr> <tr><td>enumeration</td><td>BCEC_EVENT</td></tr> <tr><td>enumeration</td><td>OTHER</td></tr> </table>	enumeration	PAVILION_EVENT	enumeration	GILLETTE_STADIUM_EVENT	enumeration	BCEC_EVENT	enumeration	OTHER
enumeration	PAVILION_EVENT								
enumeration	GILLETTE_STADIUM_EVENT								
enumeration	BCEC_EVENT								
enumeration	OTHER								
Source	<pre> <xs:simpleType name="stadiumArenaEventType"> <xs:restriction base="xs:string"> <xs:enumeration value="PAVILION_EVENT" /> <xs:enumeration value="GILLETTE_STADIUM_EVENT" /> <xs:enumeration value="BCEC_EVENT" /> <xs:enumeration value="OTHER" /> </xs:restriction> </xs:simpleType> </pre>								

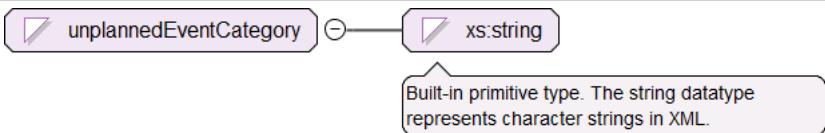
Simple Type outdoorEventType

Diagram									
Type	restriction of xs:string								
Facets	<table><tr><td>enumeration</td><td>AIRSHOW</td></tr><tr><td>enumeration</td><td>FIREWORKS_DISPLAY</td></tr><tr><td>enumeration</td><td>MOVIE_FILMING</td></tr><tr><td>enumeration</td><td>GENERAL_OUTDOOR_EVENT</td></tr></table>	enumeration	AIRSHOW	enumeration	FIREWORKS_DISPLAY	enumeration	MOVIE_FILMING	enumeration	GENERAL_OUTDOOR_EVENT
enumeration	AIRSHOW								
enumeration	FIREWORKS_DISPLAY								
enumeration	MOVIE_FILMING								
enumeration	GENERAL_OUTDOOR_EVENT								
Source	<pre><xs:simpleType name="outdoorEventType"> <xs:restriction base="xs:string"> <xs:enumeration value="AIRSHOW"/> <xs:enumeration value="FIREWORKS_DISPLAY"/> <xs:enumeration value="MOVIE_FILMING"/> <xs:enumeration value="GENERAL_OUTDOOR_EVENT"/> </xs:restriction> </xs:simpleType></pre>								

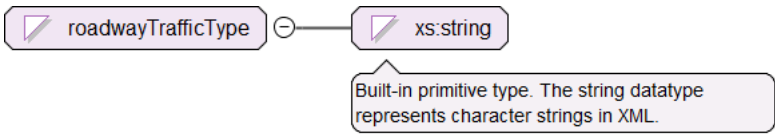
Simple Type athleticEventType

Diagram									
Type	restriction of xs:string								
Facets	<table><tr><td>enumeration</td><td>MARATHON</td></tr><tr><td>enumeration</td><td>ROAD_RACE</td></tr><tr><td>enumeration</td><td>BIKE_RACE</td></tr><tr><td>enumeration</td><td>CHARITY_WALK</td></tr></table>	enumeration	MARATHON	enumeration	ROAD_RACE	enumeration	BIKE_RACE	enumeration	CHARITY_WALK
enumeration	MARATHON								
enumeration	ROAD_RACE								
enumeration	BIKE_RACE								
enumeration	CHARITY_WALK								
Source	<pre><xs:simpleType name="athleticEventType"> <xs:restriction base="xs:string"> <xs:enumeration value="MARATHON"/> <xs:enumeration value="ROAD_RACE"/> <xs:enumeration value="BIKE_RACE"/> <xs:enumeration value="CHARITY_WALK"/> </xs:restriction> </xs:simpleType></pre>								

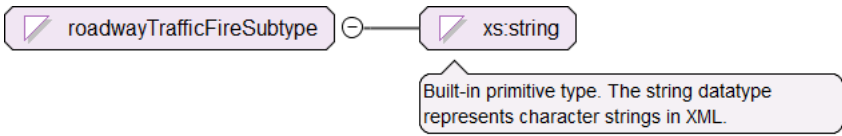
Simple Type unplannedEventCategory

Diagram					
Type	restriction of xs:string				
Facets	<table><tr><td>enumeration</td><td>ROADWAY/TRAFFIC</td></tr><tr><td>enumeration</td><td>ACTS_OF_NATURE</td></tr></table>	enumeration	ROADWAY/TRAFFIC	enumeration	ACTS_OF_NATURE
enumeration	ROADWAY/TRAFFIC				
enumeration	ACTS_OF_NATURE				
Used by	Attribute unplannedEvent/@category				
Source	<pre><xs:simpleType name="unplannedEventCategory"> <xs:restriction base="xs:string"> <xs:enumeration value="ROADWAY/TRAFFIC"/> <xs:enumeration value="ACTS_OF_NATURE"/> </xs:restriction> </xs:simpleType></pre>				

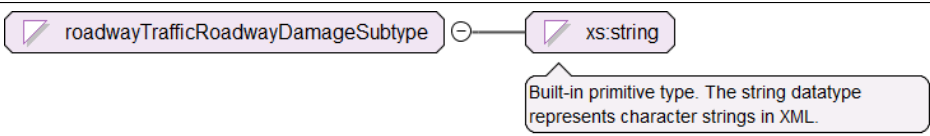
Simple Type roadwayTrafficType

Diagram															
Type	restriction of xs:string														
Facets	<table border="1"> <tr><td>enumeration</td><td>CRASH</td></tr> <tr><td>enumeration</td><td>DISABLED_MOTOR_VEHICLE</td></tr> <tr><td>enumeration</td><td>FIRE</td></tr> <tr><td>enumeration</td><td>ROADWAY_DAMAGE</td></tr> <tr><td>enumeration</td><td>ROADWAY_OBSTRUCTION</td></tr> <tr><td>enumeration</td><td>CONGESTION</td></tr> <tr><td>enumeration</td><td>GENERAL_ROADWAY/TRAFFIC</td></tr> </table>	enumeration	CRASH	enumeration	DISABLED_MOTOR_VEHICLE	enumeration	FIRE	enumeration	ROADWAY_DAMAGE	enumeration	ROADWAY_OBSTRUCTION	enumeration	CONGESTION	enumeration	GENERAL_ROADWAY/TRAFFIC
enumeration	CRASH														
enumeration	DISABLED_MOTOR_VEHICLE														
enumeration	FIRE														
enumeration	ROADWAY_DAMAGE														
enumeration	ROADWAY_OBSTRUCTION														
enumeration	CONGESTION														
enumeration	GENERAL_ROADWAY/TRAFFIC														
Used by	Attribute roadwayTrafficSpecifics/@type														
Source	<pre> <xs:simpleType name="roadwayTrafficType"> <xs:restriction base="xs:string"> <xs:enumeration value="CRASH"/> <xs:enumeration value="DISABLED_MOTOR_VEHICLE"/> <xs:enumeration value="FIRE"/> <xs:enumeration value="ROADWAY_DAMAGE"/> <xs:enumeration value="ROADWAY_OBSTRUCTION"/> <xs:enumeration value="CONGESTION"/> <xs:enumeration value="GENERAL_ROADWAY/TRAFFIC"/> </xs:restriction> </xs:simpleType> </pre>														

Simple Type roadwayTrafficFireSubtype

Diagram							
Type	restriction of xs:string						
Facets	<table border="1"> <tr><td>enumeration</td><td>VEHICLE_FIRE</td></tr> <tr><td>enumeration</td><td>FACILITY_FIRE_AFFEC- TING_ROADWAY</td></tr> <tr><td>enumeration</td><td>BRUSH/FOREST_FIRE</td></tr> </table>	enumeration	VEHICLE_FIRE	enumeration	FACILITY_FIRE_AFFEC- TING_ROADWAY	enumeration	BRUSH/FOREST_FIRE
enumeration	VEHICLE_FIRE						
enumeration	FACILITY_FIRE_AFFEC- TING_ROADWAY						
enumeration	BRUSH/FOREST_FIRE						
Source	<pre> <xs:simpleType name="roadwayTrafficFireSubtype"> <xs:restriction base="xs:string"> <xs:enumeration value="VEHICLE_FIRE"/> <xs:enumeration value="FACILITY_FIRE_AFFECTING_ROADWAY"/> <xs:enumeration value="BRUSH/FOREST_FIRE"/> </xs:restriction> </xs:simpleType> </pre>						

Simple Type roadwayTrafficRoadwayDamageSubtype

Diagram							
Type	restriction of xs:string						
Facets	<table border="1"> <tr><td>enumeration</td><td>STORM_DAMAGE</td></tr> <tr><td>enumeration</td><td>ROAD_SURFACE_COLLAPSE</td></tr> <tr><td>enumeration</td><td>POTHOLE</td></tr> </table>	enumeration	STORM_DAMAGE	enumeration	ROAD_SURFACE_COLLAPSE	enumeration	POTHOLE
enumeration	STORM_DAMAGE						
enumeration	ROAD_SURFACE_COLLAPSE						
enumeration	POTHOLE						

	enumeration	WATER_DAMAGE
	enumeration	SEWER_DAMAGE
	enumeration	GAS_LEAK
Source	<pre><xs:simpleType name="roadwayTrafficRoadwayDamageSubtype"> <xs:restriction base="xs:string"> <xs:enumeration value="STORM_DAMAGE" /> <xs:enumeration value="ROAD_SURFACE_COLLAPSE" /> <xs:enumeration value="POTHOLE" /> <xs:enumeration value="WATER_DAMAGE" /> <xs:enumeration value="SEWER_DAMAGE" /> <xs:enumeration value="GAS_LEAK" /> </xs:restriction> </xs:simpleType></pre>	

Simple Type roadwayTrafficRoadwayObstructionSubtype

Diagram	<div><div>roadwayTrafficRoadwayObstructionSubtype</div><div>⊖ — <div>xs:string</div></div><div>Built-in primitive type. The string datatype represents character strings in XML.</div></div>															
Type	restriction of xs:string															
Facets	<table><tr><td>enumeration</td><td>FALLEN_TREES</td></tr><tr><td>enumeration</td><td>DOWNED_SIGN</td></tr><tr><td>enumeration</td><td>DOWNED_UTILITY_POLE</td></tr><tr><td>enumeration</td><td>DOWNED_POWER_LINE</td></tr><tr><td>enumeration</td><td>DOWNED_CABLES</td></tr><tr><td>enumeration</td><td>CRASH_INVESTIGATION_WORK</td></tr><tr><td>enumeration</td><td>GENERAL_OBSTRUCTION/DEBRIS</td></tr></table>		enumeration	FALLEN_TREES	enumeration	DOWNED_SIGN	enumeration	DOWNED_UTILITY_POLE	enumeration	DOWNED_POWER_LINE	enumeration	DOWNED_CABLES	enumeration	CRASH_INVESTIGATION_WORK	enumeration	GENERAL_OBSTRUCTION/DEBRIS
enumeration	FALLEN_TREES															
enumeration	DOWNED_SIGN															
enumeration	DOWNED_UTILITY_POLE															
enumeration	DOWNED_POWER_LINE															
enumeration	DOWNED_CABLES															
enumeration	CRASH_INVESTIGATION_WORK															
enumeration	GENERAL_OBSTRUCTION/DEBRIS															
Source	<pre><xs:simpleType name="roadwayTrafficRoadwayObstructionSubtype"> <xs:restriction base="xs:string"> <xs:enumeration value="FALLEN_TREES" /> <xs:enumeration value="DOWNED_SIGN" /> <xs:enumeration value="DOWNED_UTILITY_POLE" /> <xs:enumeration value="DOWNED_POWER_LINE" /> <xs:enumeration value="DOWNED_CABLES" /> <xs:enumeration value="CRASH_INVESTIGATION_WORK" /> <xs:enumeration value="GENERAL_OBSTRUCTION/DEBRIS" /> </xs:restriction> </xs:simpleType></pre>															

Simple Type actsOfNatureType

Diagram	<pre>graph LR A[actsOfNatureType] --- B(()) B --- C[xs:string]</pre> <p>Built-in primitive type. The string datatype represents character strings in XML.</p>	
Type	restriction of xs:string	
Facets	enumeration	LOCAL_WEATHER_EVENT
	enumeration	ADVISORY/WATCH/WARNING
Used by	Attribute	actsOfNatureSpecifics/@type
Source	<pre><xs:simpleType name="actsOfNatureType"> <xs:restriction base="xs:string"> <xs:enumeration value="LOCAL_WEATHER_EVENT" /> <xs:enumeration value="ADVISORY/WATCH/WARNING" /> </xs:restriction> </xs:simpleType></pre>	

Complex Type(s)

Complex Type latlon

Diagram	
Used by	Element locationPoint/Coordinates
Model	Latitude , Longitude
Children	Latitude, Longitude
Source	<pre> <xs:complexType name="latlon"> <xs:sequence> <xs:element name="Latitude"> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:minInclusive value="-90"/> <xs:maxInclusive value="90"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="Longitude"> <xs:simpleType> <xs:restriction base="xs:decimal"> <xs:minInclusive value="-180"/> <xs:maxInclusive value="180"/> </xs:restriction> </xs:simpleType> </xs:element> </xs:sequence> </xs:complexType> </pre>

Complex Type locationPoint

Diagram	
Used by	Elements eventLocation/Point, eventLocation/Range/End, eventLocation/Range/Start, eventLocation/Range/Way-point
Model	RoadwayName , Coordinates
Children	Coordinates, RoadwayName
Source	<pre> <xs:complexType name="locationPoint"> <xs:sequence> <xs:element name="RoadwayName" type="xs:string"> <xs:annotation> <xs:documentation>Name of the roadway for the location including direction (e.g. I-93 NB).</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Coordinates" type="latlon"> <xs:annotation> <xs:documentation>The coordinates of the start/end/decision point.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </pre>

Complex Type eventLocation

Diagram	<pre> graph LR eventLocation[eventLocation] --- choice(()) choice --- Point[Point] choice --- Range[Range] choice --- Area[Area] Point --- locationPoint[locationPoint] Point --- pointAnn[The location for a point event.] Range --- rangeAnn[The location for a range event.] Area --- areaAnn[The location for an area event.] </pre>
Used by	Element event/Location
Model	Point Range Area
Children	Area, Point, Range
Source	<pre> <xs:complexType name="eventLocation"> <xs:choice> <xs:element name="Point" type="locationPoint"> <xs:annotation> <xs:documentation>The location for a point event.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Range"> <xs:annotation> <xs:documentation>The location for a range event.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="Start" type="locationPoint"> <xs:annotation> <xs:documentation>The point on the roadway that indicates the beginning of the event.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Waypoint" type="locationPoint" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>A point on the roadway that indicates a waypoint.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="End" type="locationPoint"> <xs:annotation> <xs:documentation>The point on the roadway that indicates the end of the event.</ xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </xs:element> <xs:element name="Area"> <xs:annotation> <xs:documentation>The location for an area event.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="AreaType" type="areaEventType"> <xs:annotation> <xs:documentation>The type of area region impacted by an event.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="AreaValue" type="xs:string" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The name/value of the specific area (type indicated by AreaType) impacted by an event.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </xs:choice> </xs:complexType> </pre>

Complex Type laneInfo

Diagram	
Used by	Element event/LaneInfo
Model	Direction , LanesAffected
Children	Direction, LanesAffected
Source	<pre> <xs:complexType name="laneInfo"> <xs:sequence> <xs:element name="Direction" type="xs:string"> <xs:annotation> <xs:documentation>The direction for each lane on the start roadway, including both direction of travel for bidirection roadways; e.g. NNN from three northbound lanes and SSSNNN for three southbound lanes and three northbound lanes. The convention is: - For northbound lanes, the first letter indicates the leftmost travel lane, which is closest to the median; - For southbound lanes, the first letter indicates the rightmost lane, which is closest to entry and exit ramps; - For eastbound lanes, the first letter indicates the leftmost travel lane, which is closest to the median; - For westbound lanes, the first letter indicates the rightmost lane, which is closest to entry and exit ramps.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="LanesAffected" type="xs:string"> <xs:annotation> <xs:documentation>Lanes affected, where open lanes will be represented by X and closed lanes by O. For example, if the rightmost two lanes are closed, then the string will be 0000XX.</ xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </pre>

Complex Type eventOccurence

Diagram	
Used by	Element plannedEvent/Occurrences/Occurrence
Model	StartDateTime , EndDateTime
Children	EndDateTime, StartDateTime
Source	<pre> <xs:complexType name="eventOccurence"> <xs:sequence> <xs:element name="StartDateTime" type="xs:dateTime"> <xs:annotation> <xs:documentation>The start Date/Time for the occurrence.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="EndDateTime" type="xs:dateTime"> <xs:annotation> <xs:documentation>The end Date/Time for the occurrence.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </pre>

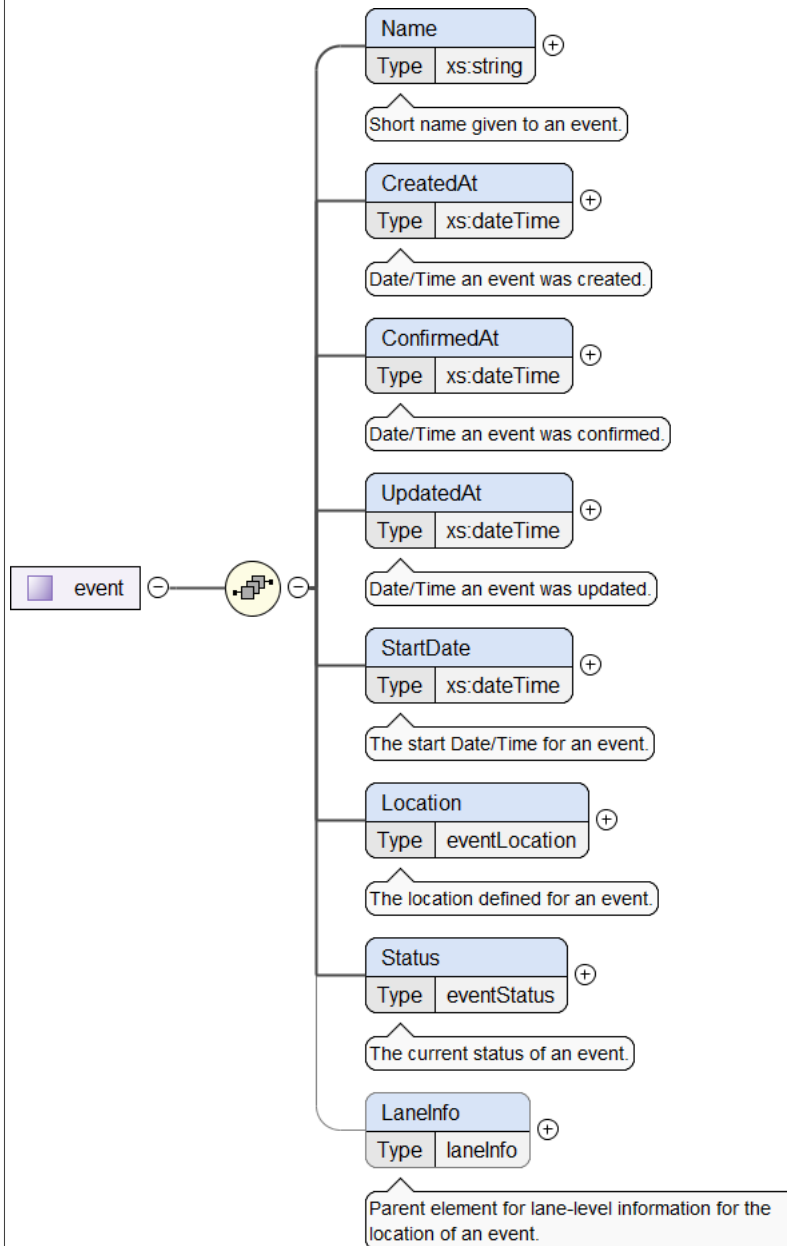
```

    </xs:annotation>
  </xs:element>
</xs:sequence>
</xs:complexType>

```

Complex Type event

Diagram



Used by Complex Types plannedEvent, unplannedEvent

Model Name , CreatedAt , ConfirmedAt , UpdatedAt , StartDate , Location , Status , LaneInfo{0,1}

Children ConfirmedAt, CreatedAt, LaneInfo, Location, Name, StartDate, Status, UpdatedAt

```

<xs:complexType name="event">
  <xs:sequence>
    <xs:element name="Name" type="xs:string">
      <xs:annotation>
        <xs:documentation>Short name given to an event.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="CreatedAt" type="xs:dateTime">
      <xs:annotation>
        <xs:documentation>Date/Time an event was created.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="ConfirmedAt" type="xs:dateTime">

```

```

<xs:annotation>
  <xs:documentation>Date/Time an event was confirmed.</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="UpdatedAt" type="xs:dateTime">
  <xs:annotation>
    <xs:documentation>Date/Time an event was updated.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="StartDate" type="xs:dateTime">
  <xs:annotation>
    <xs:documentation>The start Date/Time for an event.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="Location" type="eventLocation">
  <xs:annotation>
    <xs:documentation>The location defined for an event.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="Status" type="eventStatus">
  <xs:annotation>
    <xs:documentation>The current status of an event.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="LaneInfo" type="laneInfo" minOccurs="0">
  <xs:annotation>
    <xs:documentation>Parent element for lane-level information for the location of an event.</
xs:documentation>
  </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>

```

Complex Type constructionMaintenanceSpecifics

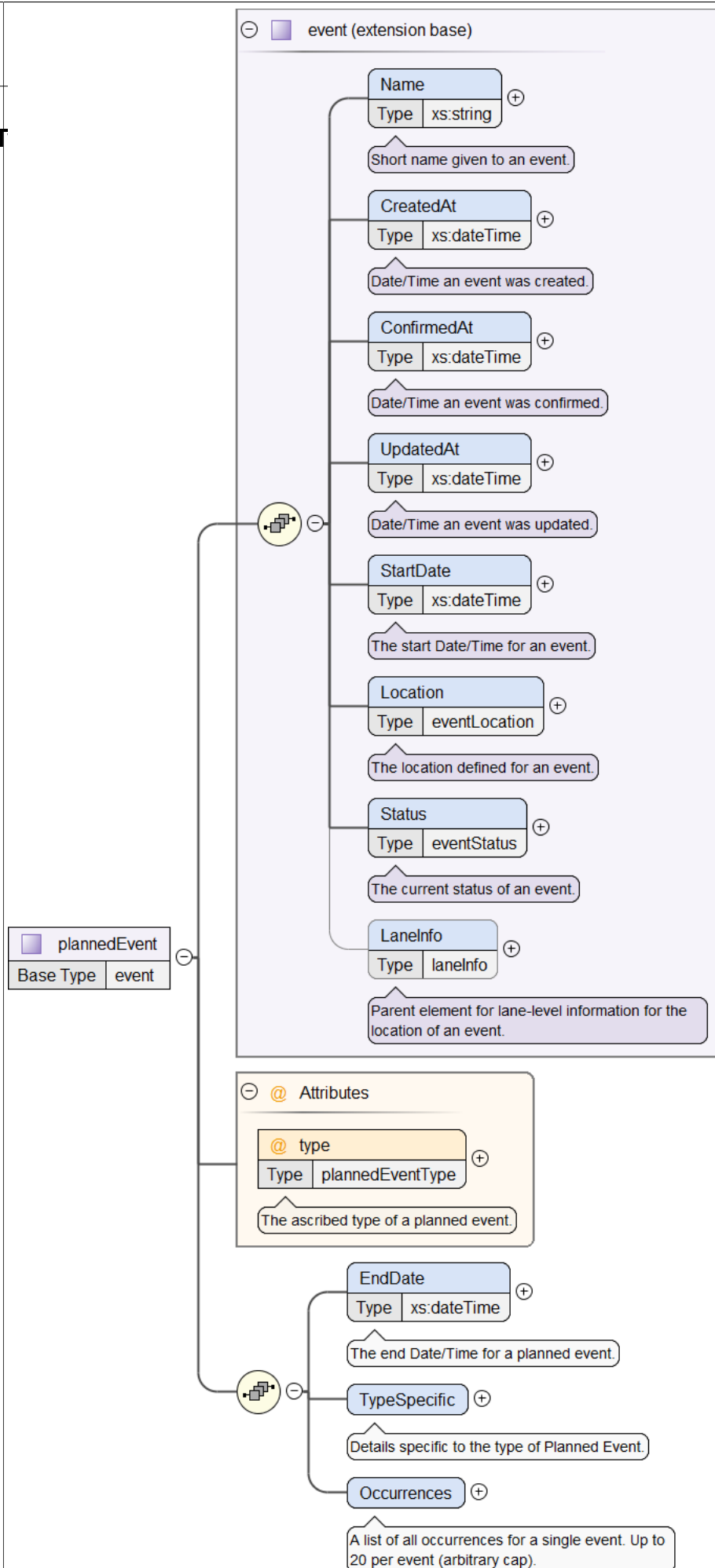
Diagram																
Attributes	<table><thead><tr><th>QName</th><th>Type</th><th>Use</th><th></th></tr></thead><tbody><tr><td>subtype</td><td>constructionMaintenanceType</td><td>required</td><td></td></tr><tr><td></td><td colspan="3">The ascribed subtype of a Planned Event.</td></tr></tbody></table>	QName	Type	Use		subtype	constructionMaintenanceType	required			The ascribed subtype of a Planned Event.					
QName	Type	Use														
subtype	constructionMaintenanceType	required														
	The ascribed subtype of a Planned Event.															
Source	<pre><xs:complexType name="constructionMaintenanceSpecifics"> <xs:attribute name="subtype" type="constructionMaintenanceType" use="required"> <xs:annotation> <xs:documentation>The ascribed subtype of a Planned Event.</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType></pre>															

Complex Type specialEventSpecifics

Diagram				
Model	SpecialEventCharacteristics{0,1}			

Children	SpecialEventCharacteristics			
Attributes	QName	Type	Use	
	subtype	specialEventType	required	
		The ascribed subtype of a Planned Event.		
Source	<pre><xs:complexType name="specialEventSpecifics"> <xs:sequence> <xs:element name="SpecialEventCharacteristics" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>The characteristics specific to a Special Event.</xs:documentation> </xs:annotation> <xs:alternative test="@subtype = 'STADIUM/ARENA_EVENT'" type="stadiumArenaEventType"/> <xs:alternative test="@subtype = 'OUTDOOR_EVENT'" type="outdoorEventType"/> <xs:alternative test="@subtype = 'ATHLETIC_EVENT'" type="athleticEventType"/> </xs:element> </xs:sequence> <xs:attribute name="subtype" type="specialEventType" use="required"> <xs:annotation> <xs:documentation>The ascribed subtype of a Planned Event.</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType></pre>			

Complex T



Type	extension of event			
Type hierarchy	<ul style="list-style-type: none"> event plannedEvent 			
Used by	Element EventsFeed/Events/PlannedEvent			
Model	Name , CreatedAt , ConfirmedAt , UpdatedAt , StartDate , Location , Status , LaneInfo{0,1} , EndDate , TypeSpecific , Occurrences			
Children	ConfirmedAt, CreatedAt, EndDate, LaneInfo, Location, Name, Occurrences, StartDate, Status, TypeSpecific, UpdatedAt			
Attributes	QName	Type	Use	
	type	plannedEventType	required	
	The ascribed type of a planned event.			
Source	<pre> <xs:complexType name="plannedEvent"> <xs:complexContent> <xs:extension base="event"> <xs:sequence> <xs:element name="EndDate" type="xs:dateTime"> <xs:annotation> <xs:documentation>The end Date/Time for a planned event.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="TypeSpecific"> <xs:annotation> <xs:documentation>Details specific to the type of Planned Event.</xs:documentation> </xs:annotation> <xs:alternative test="@type = 'CONSTRUCTION/MAINTENANCE'" type="constructionMaintenanceSpecifics"/> <xs:alternative test="@type = 'SPECIAL_EVENT'" type="specialEventSpecifics"/> </xs:element> <xs:element name="Occurrences"> <xs:annotation> <xs:documentation>A list of all occurrences for a single event. Up to 20 per event (arbitrary cap).</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence maxOccurs="20"> <xs:element name="Occurrence" type="eventOccurrence"> <xs:annotation> <xs:documentation>A single occurrence of a reurring event.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </xs:sequence> <xs:attribute name="type" type="plannedEventType" use="required"> <xs:annotation> <xs:documentation>The ascribed type of a planned event.</xs:documentation> </xs:annotation> </xs:attribute> </xs:extension> </xs:complexContent> </xs:complexType> </pre>			

Complex Type advisoryWatchWarningCharacteristics

Diagram	<p>The diagram illustrates the structure of the <code>advisoryWatchWarningCharacteristics</code> complex type. It is a sequence of the following elements:</p> <ul style="list-style-type: none"> ID (Type: <code>xs:integer</code>): An identifier for the specific weather category, event, and location. Category (Type: Restriction of <code>'xs:string'</code>): The category of the advisory/watch/warning, (either ADVISORY, WATCH, or WARNING). EventType (Type: <code>xs:string</code>): The type of weather event (e.g. Tornado, Hurricane). Location (Type: <code>xs:string</code>, Occurs: 1..∞): The specified location of the advisory/watch/warning. This could be a county name, 'STATEWIDE', or many county names. StartDateTime (Type: <code>xs:dateTime</code>): The specified start time for the advisory/watch/warning. EndDateTime (Type: <code>xs:dateTime</code>): The specified end time for the advisory/watch/warning.
Used by	Element <code>actsOfNatureSpecifics/Characteristics</code>
Model	ID , Category , EventType , Location+ , StartDateTime , EndDateTime
Children	Category, EndDateTime, EventType, ID, Location, StartDateTime
Source	<pre> <xs:complexType name="advisoryWatchWarningCharacteristics"> <xs:sequence> <xs:element name="ID" type="xs:integer"> <xs:annotation> <xs:documentation>An identifier for the specific weather category, event, and location.</xs:documentation> </xs:annotation> </xs:element> <!-- ensure this is described in the docs --> <xs:element name="Category"> <xs:annotation> <xs:documentation>The category of the advisory/watch/warning, (either ADVISORY, WATCH, or WARNING).</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="ADVISORY"/> <xs:enumeration value="WATCH"/> <xs:enumeration value="WARNING"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="EventType" type="xs:string"> <xs:annotation> <xs:documentation>The type of weather event (e.g. Tornado, Hurricane).</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Location" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The specified location of the advisory/watch/warning. This could be a county name, 'STATEWIDE', or many county names.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="StartDateTime" type="xs:dateTime"> <xs:annotation> <xs:documentation>The specified start time for the advisory/watch/warning.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="EndDateTime" type="xs:dateTime"> </pre>


```
<xs:annotation>
  <xs:documentation>The specified end time for the advisory/watch/warning.</xs:documentation>
</xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
```

Complex Type roadwayTrafficCharacteristics

Diagram	
Used by	Element roadwayTrafficSpecifics/Characteristics
Model	HasSpeedRestriction , IsWithinWorkZone , IsBoreClosureRequired
Children	HasSpeedRestriction, IsBoreClosureRequired, IsWithinWorkZone
Source	<pre><xs:complexType name="roadwayTrafficCharacteristics"> <xs:sequence> <xs:element name="HasSpeedRestriction" type="xs:boolean"> <xs:annotation> <xs:documentation>Specifies if there is a speed restriction associated with the event.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="IsWithinWorkZone" type="xs:boolean"> <xs:annotation> <xs:documentation>Specifies if the event is within a work zone.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="IsBoreClosureRequired" type="xs:boolean"> <xs:annotation> <xs:documentation>Specifies if there is a bore closure required for the event.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType></pre>

Complex Type roadwayTrafficSpecifics

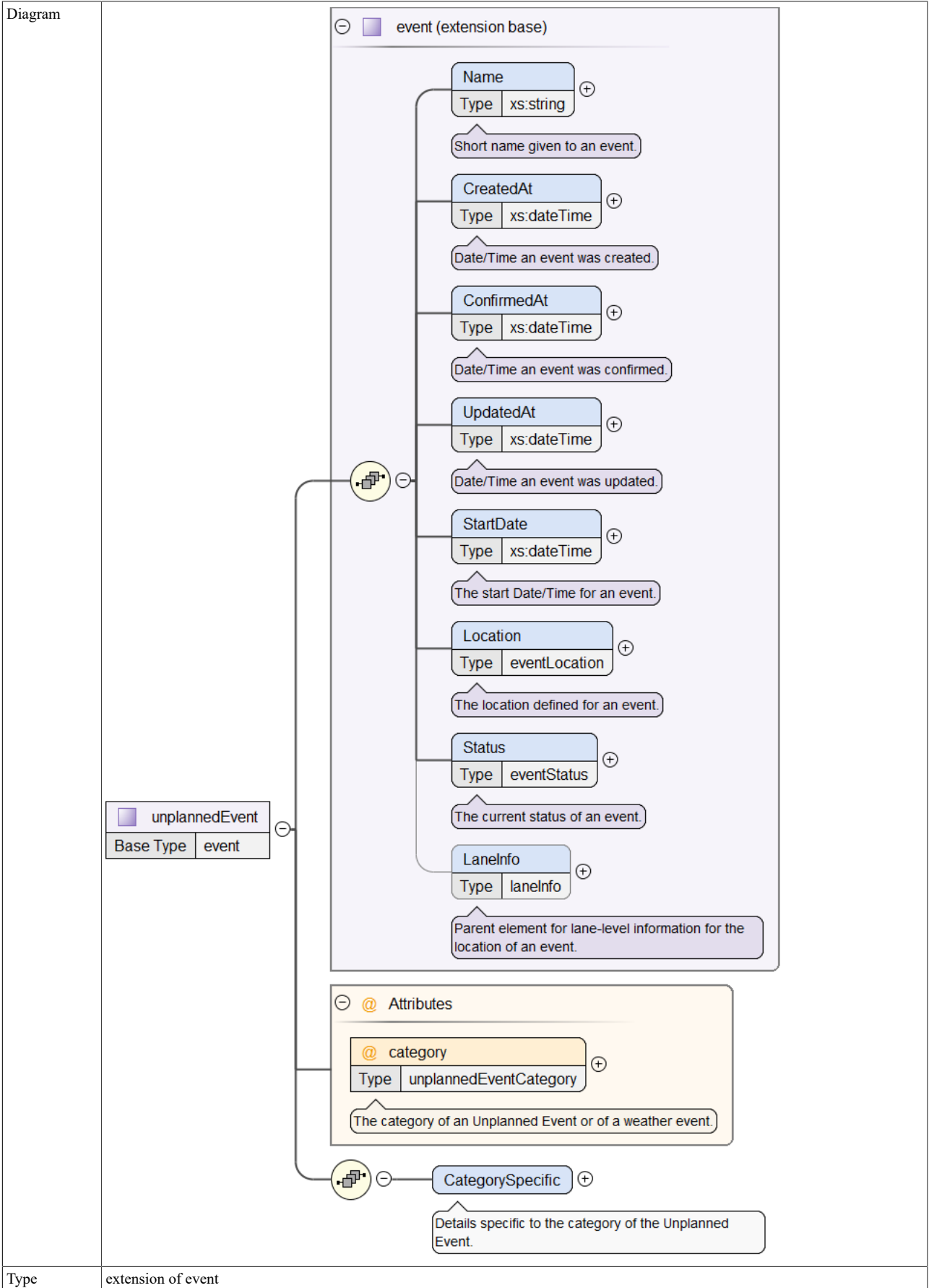
Diagram	
---------	--

Model	Subtype , Characteristics{0,1}			
Children	Characteristics, Subtype			
Attributes	QName	Type	Use	
	type	roadwayTrafficType	required	
	The type of the Unplanned Event.			
Source	<pre> <xs:complexType name="roadwayTrafficSpecifics"> <xs:sequence> <xs:element name="Subtype" type="xs:string"> <xs:annotation> <xs:documentation>The ascribed sub-type of the ROADWAY/TRAFFIC Unplanned Event.</ </xs:documentation> </xs:element> <xs:alternative test="@type = 'FIRE'" type="roadwayTrafficFireSubtype"/> <xs:alternative test="@type = 'ROADWAY_DAMAGE'" type="roadwayTrafficRoadwayDamageSubtype"/> <xs:alternative test="@type = 'ROADWAY_OBSTRUCTION'" type="roadwayTrafficRoadwayObstructionSubtype"/> </xs:element> <xs:element name="Characteristics" type="roadwayTrafficCharacteristics" minOccurs="0"> <xs:annotation> <xs:documentation>The specfic characteristics of a ROADWAY/TRAFFIC Unplanned Event.</ </xs:documentation> </xs:element> </xs:sequence> <xs:attribute name="type" type="roadwayTrafficType" use="required"> <xs:annotation> <xs:documentation>The type of the Unplanned Event.</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </pre>			

Complex Type actsOfNatureSpecifics

Diagram				
Model	Characteristics{0,1}			
Children	Characteristics			
Attributes	QName	Type	Use	
	type	actsOfNatureType	required	
	The type of the Unplanned Event.			
Source	<pre> <xs:complexType name="actsOfNatureSpecifics"> <xs:sequence> <xs:element name="Characteristics" type="advisoryWatchWarningCharacteristics" minOccurs="0"> <xs:annotation> <xs:documentation>The specific characteristics of an ACTS_OF_NATURE Unplanned Event.</ </xs:documentation> </xs:element> </xs:sequence> <xs:attribute name="type" type="actsOfNatureType" use="required"> <xs:annotation> <xs:documentation>The type of the Unplanned Event.</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </pre>			

Complex Type `unplannedEvent`



Type hierarchy	<ul style="list-style-type: none"> event unplannedEvent 			
Used by	Element EventsFeed/Events/UnplannedEvent			
Model	Name , CreatedAt , ConfirmedAt , UpdatedAt , StartDate , Location , Status , LaneInfo{0,1} , CategorySpecific			
Children	CategorySpecific, ConfirmedAt, CreatedAt, LaneInfo, Location, Name, StartDate, Status, UpdatedAt			
Attributes	QName	Type	Use	
	category	unplannedEventCategory	required	
	The category of an Unplanned Event or of a weather event.			
Source	<pre> <xs:complexType name="unplannedEvent"> <xs:complexContent> <xs:extension base="event"> <xs:sequence> <xs:element name="CategorySpecific"> <xs:annotation> <xs:documentation>Details specific to the category of the Unplanned Event.</ xs:documentation> </xs:annotation> <xs:alternative test="@category = 'ROADWAY/TRAFFIC'" type="roadwayTrafficSpecifics"/> <xs:alternative test="@category = 'ACTS_OF_NATURE'" type="actsOfNatureSpecifics"/> </xs:element> </xs:sequence> <xs:attribute name="category" type="unplannedEventCategory" use="required"> <xs:annotation> <xs:documentation>The category of an Unplanned Event or of a weather event.</ xs:documentation> </xs:annotation> </xs:attribute> </xs:extension> </xs:complexContent> </xs:complexType> </pre>			

Attribute(s)

Attribute constructionMaintenanceSpecifics / @subtype

Annotations	The ascribed subtype of a Planned Event.	
Type	constructionMaintenanceType	
Properties	use:	required
Facets	enumeration	ROADWAY_ACTIVITY
	enumeration	BRIDGE_ACTIVITY
	enumeration	TUNNEL_ACTIVITY
	enumeration	FACILITY_ACTIVITY
	enumeration	UTILITY_ACTIVITY
Used by	Complex Type	constructionMaintenanceSpecifics
Source	<pre><xs:attribute name="subtype" type="constructionMaintenanceType" use="required"> <xs:annotation> <xs:documentation>The ascribed subtype of a Planned Event.</xs:documentation> </xs:annotation> </xs:attribute></pre>	

Attribute specialEventSpecifics / @subtype

Annotations	The ascribed subtype of a Planned Event.		
Type	specialEventType		
Properties	use:	required	
Facets	enumeration	STADIUM/ARENA_EVENT	
	enumeration	OUTDOOR_EVENT	
	enumeration	VIP_VISIT	
	enumeration	ATHLETIC_EVENT	
	enumeration	FUNERAL_PROCESSION	

	enumeration	TRAINING/DRILL
	enumeration	OTHER
Used by	Complex Type	specialEventSpecifics
Source	<pre><xs:attribute name="subtype" type="specialEventType" use="required"> <xs:annotation> <xs:documentation>The ascribed subtype of a Planned Event.</xs:documentation> </xs:annotation> </xs:attribute></pre>	

Attribute plannedEvent / @type

Annotations	The ascribed type of a planned event.	
Type	plannedEventType	
Properties	use:	required
Facets	enumeration	CONSTRUCTION/MAINTENANCE
	enumeration	SPECIAL_EVENT
Used by	Complex Type	plannedEvent
Source	<pre><xs:attribute name="type" type="plannedEventType" use="required"> <xs:annotation> <xs:documentation>The ascribed type of a planned event.</xs:documentation> </xs:annotation> </xs:attribute></pre>	

Attribute roadwayTrafficSpecifics / @type

Annotations	The type of the Unplanned Event.	
Type	roadwayTrafficType	
Properties	use:	required
Facets	enumeration	CRASH
	enumeration	DISABLED_MOTOR_VEHICLE
	enumeration	FIRE
	enumeration	ROADWAY_DAMAGE
	enumeration	ROADWAY_OBSTRUCTION
	enumeration	CONGESTION
	enumeration	GENERAL_ROADWAY/TRAFFIC
Used by	Complex Type	roadwayTrafficSpecifics
Source	<pre><xs:attribute name="type" type="roadwayTrafficType" use="required"> <xs:annotation> <xs:documentation>The type of the Unplanned Event.</xs:documentation> </xs:annotation> </xs:attribute></pre>	

Attribute actsOfNatureSpecifics / @type

Annotations	The type of the Unplanned Event.	
Type	actsOfNatureType	
Properties	use:	required
Facets	enumeration	LOCAL_WEATHER_EVENT
	enumeration	ADVISORY/WATCH/WARNING
Used by	Complex Type	actsOfNatureSpecifics
Source	<pre><xs:attribute name="type" type="actsOfNatureType" use="required"> <xs:annotation> <xs:documentation>The type of the Unplanned Event.</xs:documentation> </xs:annotation> </xs:attribute></pre>	

Attribute `unplannedEvent` / `@category`

Annotations	The category of an Unplanned Event or of a weather event.	
Type	unplannedEventCategory	
Properties	use:	required
Facets	enumeration	ROADWAY/TRAFFIC
	enumeration	ACTS_OF_NATURE
Used by	Complex Type	unplannedEvent
Source	<pre><xs:attribute name="category" type="unplannedEventCategory" use="required"> <xs:annotation> <xs:documentation>The category of an Unplanned Event or of a weather event.</xs:documentation> </xs:annotation> </xs:attribute></pre>	