

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

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## 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>&lt;xs:element name="Latitude"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:decimal"&gt;       &lt;xs:minInclusive value="-90"/&gt;       &lt;xs:maxInclusive value="90"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt;</pre>

### Element latlon / Longitude

Diagram	
Type	restriction of xs:decimal
Properties	content:                   simple

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

## Element locationPoint / RoadwayName

Diagram		
Type	xs:string	
Properties	content:	simple
Source	<pre>&lt;xs:element name="RoadwayName" type="xs:string"/&gt;</pre>	

## Element locationPoint / Coordinates

Diagram		
Type	latlon	
Properties	content:	complex
Model	Latitude , Longitude	
Children	Latitude, Longitude	
Instance	<pre>&lt;Coordinates&gt;   &lt;Latitude&gt;{1,1}&lt;/Latitude&gt;   &lt;Longitude&gt;{1,1}&lt;/Longitude&gt; &lt;/Coordinates&gt;</pre>	
Source	<pre>&lt;xs:element name="Coordinates" type="latlon"/&gt;</pre>	

## Element eventLocation / Point

Diagram		
Type	locationPoint	
Properties	content:	complex

Model	RoadwayName , Coordinates
Children	Coordinates, RoadwayName
Instance	<pre>&lt;Point&gt;   &lt;RoadwayName&gt;{1,1}&lt;/RoadwayName&gt;   &lt;Coordinates&gt;{1,1}&lt;/Coordinates&gt; &lt;/Point&gt;</pre>
Source	<pre>&lt;xs:element name="Point" type="locationPoint"/&gt;</pre>

## Element eventLocation / Range

Diagram	
Properties	content: complex
Model	Start , Waypoint* , End
Children	End, Start, Waypoint
Instance	<pre>&lt;Range&gt;   &lt;Start&gt;{1,1}&lt;/Start&gt;   &lt;Waypoint&gt;{0,unbounded}&lt;/Waypoint&gt;   &lt;End&gt;{1,1}&lt;/End&gt; &lt;/Range&gt;</pre>
Source	<pre>&lt;xs:element name="Range"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="Start" type="locationPoint"/&gt;       &lt;xs:element name="Waypoint" type="locationPoint" minOccurs="0" maxOccurs="unbounded"/&gt;       &lt;xs:element name="End" type="locationPoint"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

## Element eventLocation / Range / Start

Diagram	
Type	locationPoint
Properties	content: complex
Model	RoadwayName , Coordinates
Children	Coordinates, RoadwayName
Instance	<pre>&lt;Start&gt;   &lt;RoadwayName&gt;{1,1}&lt;/RoadwayName&gt;   &lt;Coordinates&gt;{1,1}&lt;/Coordinates&gt; &lt;/Start&gt;</pre>
Source	<pre>&lt;xs:element name="Start" type="locationPoint"/&gt;</pre>

## Element eventLocation / Range / 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>&lt;Waypoint&gt;   &lt;RoadwayName&gt;{1,1}&lt;/RoadwayName&gt;   &lt;Coordinates&gt;{1,1}&lt;/Coordinates&gt; &lt;/Waypoint&gt;</pre>						
Source	<code>&lt;xs:element name="Waypoint" type="locationPoint" minOccurs="0" maxOccurs="unbounded"/&gt;</code>						

## Element eventLocation / Range / End

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>&lt;End&gt;   &lt;RoadwayName&gt;{1,1}&lt;/RoadwayName&gt;   &lt;Coordinates&gt;{1,1}&lt;/Coordinates&gt; &lt;/End&gt;</pre>		
Source	<code>&lt;xs:element name="End" type="locationPoint"/&gt;</code>		

## Element eventLocation / Area

Diagram			
Properties	<table> <tr> <td>content:</td><td>complex</td></tr> </table>	content:	complex
content:	complex		
Model	AreaType , AreaValue+		
Children	AreaType, AreaValue		
Instance	<code>&lt;Area&gt;</code>		

	<pre> &lt;AreaType&gt;{1,1}&lt;/AreaType&gt; &lt;AreaValue&gt;{1,unbounded}&lt;/AreaValue&gt; &lt;/Area&gt; </pre>
Source	<pre> &lt;xs:element name="Area"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="AreaType" type="areaEventType" /&gt;       &lt;xs:element name="AreaValue" type="xs:string" maxOccurs="unbounded" /&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

## Element eventLocation / Area / AreaType

Diagram		
Type	areaEventType	
Properties	content:	simple
Facets	enumeration	TOWN
	enumeration	COUNTY
	enumeration	SUBDISTRICT
	enumeration	DISTRICT
	enumeration	STATEWIDE
Source	<pre> &lt;xs:element name="AreaType" type="areaEventType" /&gt; </pre>	

## Element eventLocation / Area / AreaValue

Diagram		
Type	xs:string	
Properties	content:	simple
	maxOccurs:	unbounded
Source	<pre> &lt;xs:element name="AreaValue" type="xs:string" maxOccurs="unbounded" /&gt; </pre>	

## Element laneInfo / Direction

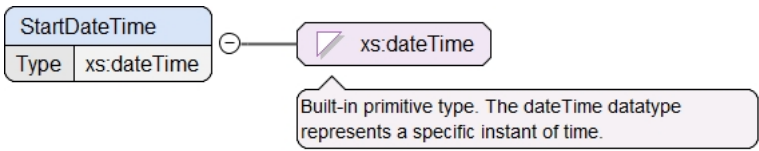
Diagram		
Type	xs:string	
Properties	content:	simple
Source	<pre> &lt;xs:element name="Direction" type="xs:string" /&gt; </pre>	

## Element laneInfo / LanesAffected

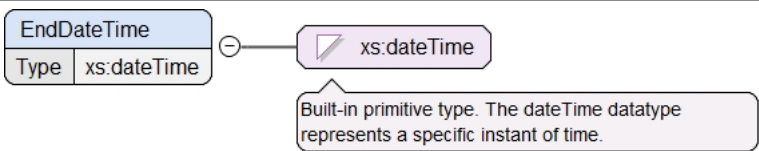
Diagram		
Type	xs:string	

Properties	content: simple
Source	<code>&lt;xs:element name="LanesAffected" type="xs:string" /&gt;</code>

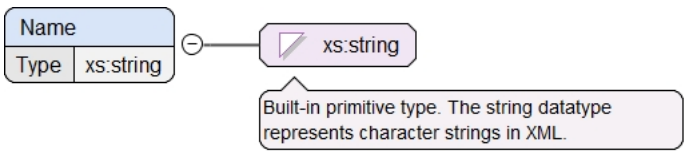
## Element eventOccurence / StartDateTime

Diagram	 <p>The diagram shows a box for the <b>StartDateTime</b> element with a sub-section 'Type' containing 'xs:dateTime'. A line with a circle at the end connects this box to a purple box labeled 'xs:dateTime'. A callout bubble points to the 'xs:dateTime' box with the text: 'Built-in primitive type. The dateTime datatype represents a specific instant of time.'</p>
Type	xs:dateTime
Properties	content: simple
Source	<code>&lt;xs:element name="StartDateTime" type="xs:dateTime" /&gt;</code>

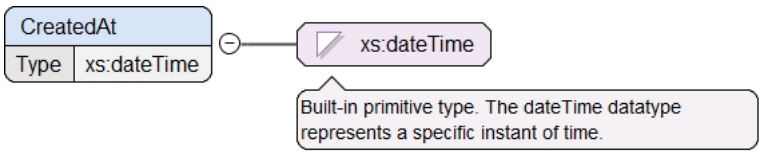
## Element eventOccurence / EndDateTime

Diagram	 <p>The diagram shows a box for the <b>EndDateTime</b> element with a sub-section 'Type' containing 'xs:dateTime'. A line with a circle at the end connects this box to a purple box labeled 'xs:dateTime'. A callout bubble points to the 'xs:dateTime' box with the text: 'Built-in primitive type. The dateTime datatype represents a specific instant of time.'</p>
Type	xs:dateTime
Properties	content: simple
Source	<code>&lt;xs:element name="EndDateTime" type="xs:dateTime" /&gt;</code>

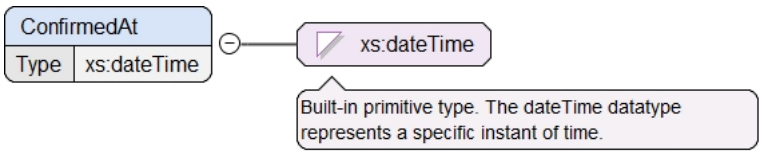
## Element event / Name

Diagram	 <p>The diagram shows a box for the <b>Name</b> element with a sub-section 'Type' containing 'xs:string'. A line with a circle at the end connects this box to a purple box labeled 'xs:string'. A callout bubble points to the 'xs:string' box with the text: 'Built-in primitive type. The string datatype represents character strings in XML.'</p>
Type	xs:string
Properties	content: simple
Source	<code>&lt;xs:element name="Name" type="xs:string" /&gt;</code>

## Element event / CreatedAt

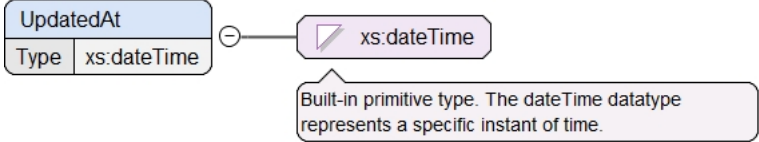
Diagram	 <p>The diagram shows a box for the <b>CreatedAt</b> element with a sub-section 'Type' containing 'xs:dateTime'. A line with a circle at the end connects this box to a purple box labeled 'xs:dateTime'. A callout bubble points to the 'xs:dateTime' box with the text: 'Built-in primitive type. The dateTime datatype represents a specific instant of time.'</p>
Type	xs:dateTime
Properties	content: simple
Source	<code>&lt;xs:element name="CreatedAt" type="xs:dateTime" /&gt;</code>

## Element event / ConfirmedAt

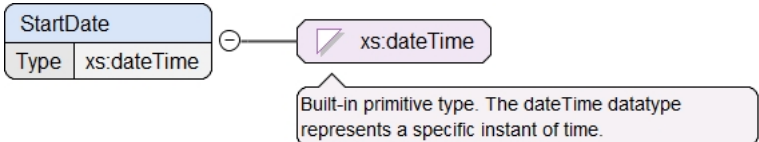
Diagram	 <p>The diagram shows a box for the <b>ConfirmedAt</b> element with a sub-section 'Type' containing 'xs:dateTime'. A line with a circle at the end connects this box to a purple box labeled 'xs:dateTime'. A callout bubble points to the 'xs:dateTime' box with the text: 'Built-in primitive type. The dateTime datatype represents a specific instant of time.'</p>
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Type	xs:dateTime
Properties	content: simple
Source	<code>&lt;xs:element name="ConfirmedAt" type="xs:dateTime" /&gt;</code>

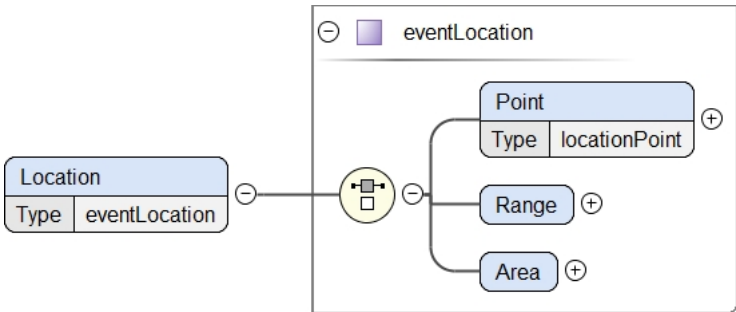
## Element event / UpdatedAt

Diagram	 <p>The diagram shows a box for the <b>UpdatedAt</b> element with a sub-section 'Type' containing 'xs:dateTime'. A line with a circle at the end connects this box to a purple box labeled 'xs:dateTime'. A callout bubble points to the 'xs:dateTime' box with the text: 'Built-in primitive type. The dateTime datatype represents a specific instant of time.'</p>
Type	xs:dateTime
Properties	content: simple
Source	<code>&lt;xs:element name="UpdatedAt" type="xs:dateTime" /&gt;</code>

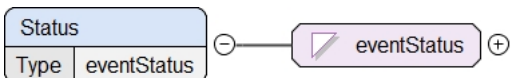
## Element event / StartDate

Diagram	 <p>The diagram shows a box for the <b>StartDate</b> element with a sub-section 'Type' containing 'xs:dateTime'. A line with a circle at the end connects this box to a purple box labeled 'xs:dateTime'. A callout bubble points to the 'xs:dateTime' box with the text: 'Built-in primitive type. The dateTime datatype represents a specific instant of time.'</p>
Type	xs:dateTime
Properties	content: simple
Source	<code>&lt;xs:element name="StartDate" type="xs:dateTime" /&gt;</code>

## Element event / Location

Diagram	 <p>The diagram shows a box for the <b>Location</b> element with a sub-section 'Type' containing 'eventLocation'. A line with a circle at the end connects this box to a yellow circle containing a square icon. This circle is connected to a larger box labeled 'eventLocation'. Inside the 'eventLocation' box, there are three sub-elements: <b>Point</b> (Type: locationPoint), <b>Range</b>, and <b>Area</b>. Each of these sub-elements has a '+' sign next to it, indicating they are optional or can occur multiple times. The 'Point' element also has a '+' sign next to its box.</p>
Type	eventLocation
Properties	content: complex
Model	Point   Range   Area
Children	Area, Point, Range
Instance	<pre> &lt;Location&gt;   &lt;Point&gt;{1,1}&lt;/Point&gt;   &lt;Range&gt;{1,1}&lt;/Range&gt;   &lt;Area&gt;{1,1}&lt;/Area&gt; &lt;/Location&gt; </pre>
Source	<code>&lt;xs:element name="Location" type="eventLocation" /&gt;</code>

## Element event / Status

Diagram	 <p>The diagram shows a box for the <b>Status</b> element with a sub-section 'Type' containing 'eventStatus'. A line with a circle at the end connects this box to a purple box labeled 'eventStatus' which has a '+' sign next to it.</p>
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Type	eventStatus	
Properties	content:	simple
Facets	enumeration	ACTIVE
	enumeration	FUTURE
	enumeration	TERMINATED
Source	<xs:element name="Status" type="eventStatus" />	

## Element event / LaneInfo

Diagram		
Type	laneInfo	
Properties	content:	complex
	minOccurs:	0
Model	Direction , LanesAffected	
Children	Direction, LanesAffected	
Instance	<pre>&lt;LaneInfo&gt;   &lt;Direction&gt;{1,1}&lt;/Direction&gt;   &lt;LanesAffected&gt;{1,1}&lt;/LanesAffected&gt; &lt;/LaneInfo&gt;</pre>	
Source	<xs:element name="LaneInfo" type="laneInfo" minOccurs="0" />	

## Element specialEventSpecifics / SpecialEventCharacteristics

Diagram			
Type	xs:string		
Properties	content:	simple	
	minOccurs:	0	
Type Alternatives	Type	Test	XPath default namespace
	stadiumArenaEventType	@subtype = 'STADIUM/ARENA_EVENT'	

	Type	Test	XPath default namespace
	outdoorEventType	@subtype = 'OUTDOOR_EVENT'	
	athleticEventType	@subtype = 'ATHLETIC_EVENT'	
	xs:anyAtomicType [Default Type]		
Source	<pre>&lt;xs:element name="SpecialEventCharacteristics" type="xs:string" minOccurs="0"&gt;   &lt;xs:alternative test="@subtype = 'STADIUM/ARENA_EVENT'" type="stadiumArenaEventType"/&gt;   &lt;xs:alternative test="@subtype = 'OUTDOOR_EVENT'" type="outdoorEventType"/&gt;   &lt;xs:alternative test="@subtype = 'ATHLETIC_EVENT'" type="athleticEventType"/&gt; &lt;/xs:element&gt;</pre>		

## Element plannedEvent / EndDate

Diagram	<div><div><div>EndDate</div><div>Typexs:dateTime</div></div><div><div>⊖</div><div><div><div></div></div>xs:dateTime</div></div><div><div>Built-in primitive type. The dateTime datatype represents a specific instant of time.</div></div></div>
Type	xs:dateTime
Properties	content:simple
Source	<xs:element name="EndDate" type="xs:dateTime" />

## Element plannedEvent / TypeSpecific

Diagram			
Type Alternatives	Type	Test	XPath default namespace
	constructionMaintenanceSpecifics	@type = 'CONSTRUCTION/MAINTENANCE'	
	specialEventSpecifics	@type = 'SPECIAL_EVENT'	
Source	<pre>&lt;xs:element name="TypeSpecific"&gt;   &lt;xs:alternative test="@type = 'CONSTRUCTION/MAINTENANCE'" type="constructionMaintenanceSpecifics"/&gt;   &lt;xs:alternative test="@type = 'SPECIAL_EVENT'" type="specialEventSpecifics"/&gt; &lt;/xs:element&gt;</pre>		

## Element plannedEvent / Occurrences

Diagram			
Properties	content:	complex	
Model	Occurrence		
Children	Occurrence		
Instance	<pre>&lt;Occurrences&gt;   &lt;Occurrence&gt;{1,1}&lt;/Occurrence&gt; &lt;/Occurrences&gt;</pre>		
Source	<pre>&lt;xs:element name="Occurrences"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence maxOccurs="20"&gt;       &lt;!-- NOTE arbitrary cap --&gt;</pre>		

```
<xs:element name="Occurrence" type="eventOccurrence" />
</xs:sequence>
</xs:complexType>
</xs:element>
```

## Element plannedEvent / Occurrences / Occurrence

Diagram	
Type	eventOccurrence
Properties	content: complex
Model	StartDateTime , EndDateTime
Children	EndDateTime, StartDateTime
Instance	<pre>&lt;Occurrence&gt;   &lt;StartDateTime&gt;{1,1}&lt;/StartDateTime&gt;   &lt;EndDateTime&gt;{1,1}&lt;/EndDateTime&gt; &lt;/Occurrence&gt;</pre>
Source	<pre>&lt;xs:element name="Occurrence" type="eventOccurrence" /&gt;</pre>

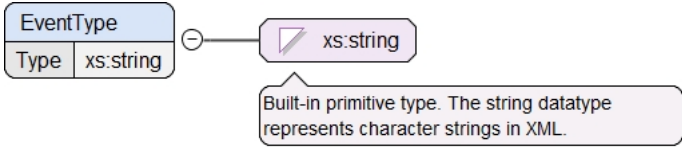
## Element advisoryWatchWarningCharacteristics / ID

Diagram	
Type	xs:integer
Properties	content: simple
Source	<pre>&lt;xs:element name="ID" type="xs:integer" /&gt;</pre>

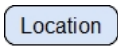
## Element advisoryWatchWarningCharacteristics / Category

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> <tr> <td>enumeration</td><td>WARNING</td></tr> </table>	enumeration	ADVISORY	enumeration	WATCH	enumeration	WARNING
enumeration	ADVISORY						
enumeration	WATCH						
enumeration	WARNING						
Source	<pre>&lt;xs:element name="Category"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:enumeration value="ADVISORY" /&gt;       &lt;xs:enumeration value="WATCH" /&gt;       &lt;xs:enumeration value="WARNING" /&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt;</pre>						

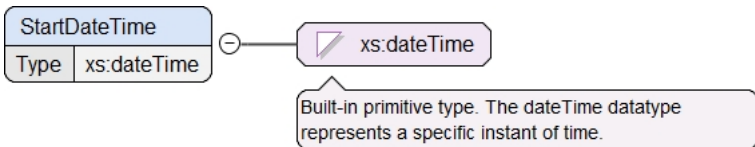
## Element advisoryWatchWarningCharacteristics / EventType

Diagram	
Type	xs:string
Properties	content: simple
Source	<code>&lt;xs:element name="EventType" type="xs:string"/&gt;</code>

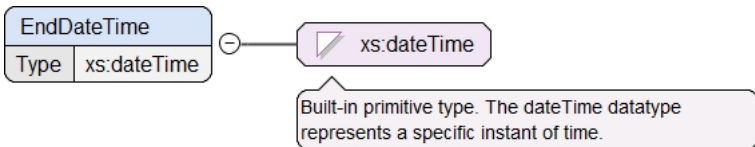
## Element advisoryWatchWarningCharacteristics / Location

Diagram	
Properties	maxOccurs: unbounded
Source	<code>&lt;xs:element name="Location" maxOccurs="unbounded"/&gt;</code>

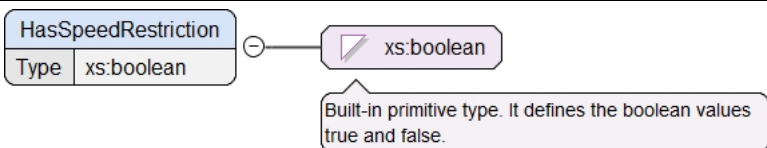
## Element advisoryWatchWarningCharacteristics / StartDateTime

Diagram	
Type	xs:dateTime
Properties	content: simple
Source	<code>&lt;xs:element name="StartDateTime" type="xs:dateTime"/&gt;</code>

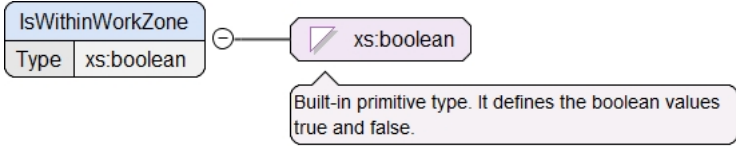
## Element advisoryWatchWarningCharacteristics / EndDateTime

Diagram	
Type	xs:dateTime
Properties	content: simple
Source	<code>&lt;xs:element name="EndDateTime" type="xs:dateTime"/&gt;</code>

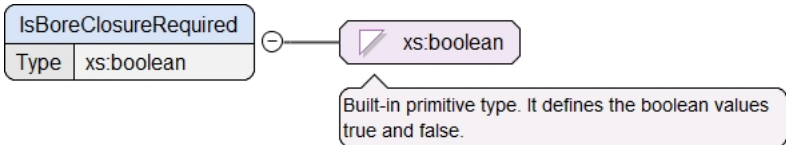
## Element roadwayTrafficCharacteristics / HasSpeedRestriction

Diagram	
Type	xs:boolean
Properties	content: simple
Source	<code>&lt;xs:element name="HasSpeedRestriction" type="xs:boolean"/&gt;</code>

## Element roadwayTrafficCharacteristics / IsWithinWorkZone

Diagram	
Type	xs:boolean
Properties	content: simple
Source	<code>&lt;xs:element name="IsWithinWorkZone" type="xs:boolean"/&gt;</code>

## Element roadwayTrafficCharacteristics / IsBoreClosureRequired

Diagram	
Type	xs:boolean
Properties	content: simple
Source	<code>&lt;xs:element name="IsBoreClosureRequired" type="xs:boolean"/&gt;</code>

## Element roadwayTrafficSpecifics / Subtype

Diagram	<div><div><div>Subtype</div><div>Typexs:string</div></div><div><div><div>Type Alternatives</div><div><div>roadwayTrafficFireSubtype</div><div>Test @type = 'FIRE'</div></div><div><div>roadwayTrafficRoadwayDamageSubtype</div><div>Test @type = 'ROADWAY_DAMAGE'</div></div><div><div>roadwayTrafficRoadwayObstructionSubtype</div><div>Test @type = 'ROADWAY_OBSTRUCTION'</div></div><div><div>xs:string</div><div>Built-in primitive type. The string datatype represents character strings in XML.</div></div></div></div></div>																	
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>&lt;xs:element name="Subtype" type="xs:string"&gt;   &lt;xs:alternative test="@type = 'FIRE'" type="roadwayTrafficFireSubtype"/&gt;   &lt;xs:alternative test="@type = 'ROADWAY_DAMAGE'" type="roadwayTrafficRoadwayDamageSubtype"/&gt;   &lt;xs:alternative test="@type = 'ROADWAY_OBSTRUCTION'"     type="roadwayTrafficRoadwayObstructionSubtype"/&gt; &lt;/xs:element&gt;</pre>																	

</xs:element>

## Element roadwayTrafficSpecifics / Characteristics

Diagram	
Type	roadwayTrafficCharacteristics
Properties	content: complex minOccurs: 0
Model	HasSpeedRestriction , IsWithinWorkZone , IsBoreClosureRequired
Children	HasSpeedRestriction, IsBoreClosureRequired, IsWithinWorkZone
Instance	<pre>&lt;Characteristics&gt;   &lt;HasSpeedRestriction&gt;{1,1}&lt;/HasSpeedRestriction&gt;   &lt;IsWithinWorkZone&gt;{1,1}&lt;/IsWithinWorkZone&gt;   &lt;IsBoreClosureRequired&gt;{1,1}&lt;/IsBoreClosureRequired&gt; &lt;/Characteristics&gt;</pre>
Source	<code>&lt;xs:element name="Characteristics" type="roadwayTrafficCharacteristics" minOccurs="0"/&gt;</code>

## Element actsOfNaturesSpecifics / Characteristics

Diagram	
Type	advisoryWatchWarningCharacteristics
Properties	content: complex minOccurs: 0
Model	ID , Category , EventType , Location+ , StartDateTime , EndDateTime
Children	Category, EndDateTime, EventType, ID, Location, StartDateTime
Instance	<pre>&lt;Characteristics&gt;   &lt;ID&gt;{1,1}&lt;/ID&gt;   &lt;Category&gt;{1,1}&lt;/Category&gt;   &lt;EventType&gt;{1,1}&lt;/EventType&gt;</pre>

	<pre> &lt;Location&gt;{1,unbounded}&lt;/Location&gt; &lt;StartDateTime&gt;{1,1}&lt;/StartDateTime&gt; &lt;EndDateTime&gt;{1,1}&lt;/EndDateTime&gt; &lt;/Characteristics&gt; </pre>
Source	<pre> &lt;xs:element name="Characteristics" type="advisoryWatchWarningCharacteristics" minOccurs="0"/&gt; </pre>

## Element unplannedEvent / CategorySpecific

Diagram												
Type Alternatives	<table><tr><th>Type</th><th>Test</th><th>XPath default namespace</th></tr><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></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>&lt;xs:element name="CategorySpecific"&gt;   &lt;xs:alternative test="@category = 'ROADWAY/TRAFFIC'" type="roadwayTrafficSpecifics"/&gt;   &lt;xs:alternative test="@category = 'ACTS_OF_NATURE'" type="actsOfNatureSpecifics"/&gt; &lt;/xs:element&gt;</pre>											

## Element EventsFeed

Diagram	<pre>graph LR     EF((EventsFeed -)) --- UTS[UpdateTimestamp +]     EF --- E[Events +]     UTS --- Type[Type xs:dateTime]</pre>		
Properties	content:	complex	
Model	UpdateTimestamp , Events		
Children	Events, UpdateTimestamp		
Instance	<pre>&lt;EventsFeed&gt;   &lt;UpdateTimestamp&gt;{1,1}&lt;/UpdateTimestamp&gt;   &lt;Events&gt;{1,1}&lt;/Events&gt; &lt;/EventsFeed&gt;</pre>		
Source	<pre>&lt;xs:element name="EventsFeed"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="UpdateTimestamp" type="xs:dateTime" /&gt;       &lt;xs:element name="Events"&gt;         &lt;xs:complexType&gt;           &lt;xs:choice minOccurs="0" maxOccurs="unbounded"&gt;             &lt;xs:element name="PlannedEvent" type="plannedEvent" /&gt;             &lt;xs:element name="UnplannedEvent" type="unplannedEvent" /&gt;           &lt;/xs:choice&gt;         &lt;/xs:complexType&gt;       &lt;/xs:element&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>		

## Element EventsFeed / UpdateTimestamp

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

Type	xs:dateTime
Properties	content: simple
Source	<code>&lt;xs:element name="UpdateTimestamp" type="xs:dateTime" /&gt;</code>

## Element EventsFeed / Events

Diagram	
Properties	content: complex
Model	PlannedEvent   UnplannedEvent
Children	PlannedEvent, UnplannedEvent
Instance	<pre> &lt;Events&gt;   &lt;PlannedEvent type=""&gt;{1,1}&lt;/PlannedEvent&gt;   &lt;UnplannedEvent category=""&gt;{1,1}&lt;/UnplannedEvent&gt; &lt;/Events&gt; </pre>
Source	<pre> &lt;xs:element name="Events"&gt;   &lt;xs:complexType&gt;     &lt;xs:choice minOccurs="0" maxOccurs="unbounded"&gt;       &lt;xs:element name="PlannedEvent" type="plannedEvent" /&gt;       &lt;xs:element name="UnplannedEvent" type="unplannedEvent" /&gt;     &lt;/xs:choice&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>



## Element EventsFeed / Events / PlannedEvent

Diagram	<p>The diagram illustrates the structure of the <b>PlannedEvent</b> element. It is a complex type that extends the <b>event</b> base type. The <b>event</b> base type contains the following elements:</p> <ul style="list-style-type: none"> <li><b>Name</b> (Type: xs:string)</li> <li><b>CreatedAt</b> (Type: xs:dateTime)</li> <li><b>ConfirmedAt</b> (Type: xs:dateTime)</li> <li><b>UpdatedAt</b> (Type: xs:dateTime)</li> <li><b>StartDate</b> (Type: xs:dateTime)</li> <li><b>Location</b> (Type: eventLocation)</li> <li><b>Status</b> (Type: eventStatus)</li> <li><b>LaneInfo</b> (Type: laneInfo)</li> </ul> <p>The <b>PlannedEvent</b> type has the following structure:</p> <ul style="list-style-type: none"> <li><b>Attributes:</b> <ul style="list-style-type: none"> <li><b>@ type</b> (Type: plannedEventType)</li> </ul> </li> <li><b>Child Elements:</b> <ul style="list-style-type: none"> <li><b>EndDate</b> (Type: xs:dateTime)</li> <li><b>Choice:</b> <ul style="list-style-type: none"> <li><b>TypeSpecific</b></li> <li><b>Occurrences</b></li> </ul> </li> </ul> </li> </ul>
Type	plannedEvent
Type hierarchy	<ul style="list-style-type: none"> <li>event</li> <li>plannedEvent</li> </ul>
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>&lt;PlannedEvent type=""&gt;   &lt;Name&gt;{1,1}&lt;/Name&gt;</pre>

	<pre> &lt;CreatedAt&gt;{1,1}&lt;/CreatedAt&gt; &lt;ConfirmedAt&gt;{1,1}&lt;/ConfirmedAt&gt; &lt;UpdatedAt&gt;{1,1}&lt;/UpdatedAt&gt; &lt;StartDate&gt;{1,1}&lt;/StartDate&gt; &lt;Location&gt;{1,1}&lt;/Location&gt; &lt;Status&gt;{1,1}&lt;/Status&gt; &lt;LaneInfo&gt;{0,1}&lt;/LaneInfo&gt; &lt;EndDate&gt;{1,1}&lt;/EndDate&gt; &lt;TypeSpecific&gt;{1,1}&lt;/TypeSpecific&gt; &lt;Occurrences&gt;{1,1}&lt;/Occurrences&gt; &lt;/PlannedEvent&gt; </pre>			
Attributes	QName	Type	Use	
	type	plannedEventType	required	
Source	<xs:element name="PlannedEvent" type="plannedEvent" />			

## Element EventsFeed / Events / UnplannedEvent

Diagram	<pre> graph TD     UnplannedEvent[UnplannedEvent Type: unplannedEvent]     event[event (extension base)]     category["@category Type: unplannedEventCategory"]     CategorySpecific[CategorySpecific]      UnplannedEvent --- event     UnplannedEvent --- category     UnplannedEvent --- CategorySpecific      event --- Name[Name Type: xs:string]     event --- CreatedAt[CreatedAt Type: xs:dateTime]     event --- ConfirmedAt[ConfirmedAt Type: xs:dateTime]     event --- UpdatedAt[UpdatedAt Type: xs:dateTime]     event --- StartDate[StartDate Type: xs:dateTime]     event --- Location[Location Type: eventLocation]     event --- Status[Status Type: eventStatus]     event --- LaneInfo[LaneInfo Type: laneInfo] </pre>			
Type	unplannedEvent			
Type hierarchy	<ul style="list-style-type: none"> <li>event</li> </ul>			

	<ul style="list-style-type: none"><li>unplannedEvent</li></ul>			
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>&lt;UnplannedEvent category=" "&gt;   &lt;Name&gt;{1,1}&lt;/Name&gt;   &lt;CreatedAt&gt;{1,1}&lt;/CreatedAt&gt;   &lt;ConfirmedAt&gt;{1,1}&lt;/ConfirmedAt&gt;   &lt;UpdatedAt&gt;{1,1}&lt;/UpdatedAt&gt;   &lt;StartDate&gt;{1,1}&lt;/StartDate&gt;   &lt;Location&gt;{1,1}&lt;/Location&gt;   &lt;Status&gt;{1,1}&lt;/Status&gt;   &lt;LaneInfo&gt;{0,1}&lt;/LaneInfo&gt;   &lt;CategorySpecific&gt;{1,1}&lt;/CategorySpecific&gt; &lt;/UnplannedEvent&gt;</pre>			
Attributes	QName	Type	Use	
	category	unplannedEventCategory	required	
Source	<xs:element name="UnplannedEvent" type="unplannedEvent" />			

## Simple Type(s)

### Simple Type eventStatus

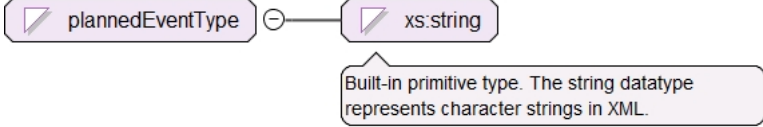
Diagram			
Type	restriction of xs:string		
Facets	enumeration	ACTIVE	
	enumeration	FUTURE	
	enumeration	TERMINATED	
Used by	Element	event/Status	
Source	<pre>&lt;xs:simpleType name="eventStatus"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="ACTIVE" /&gt;     &lt;xs:enumeration value="FUTURE" /&gt;     &lt;xs:enumeration value="TERMINATED" /&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>		

### Simple Type areaEventType

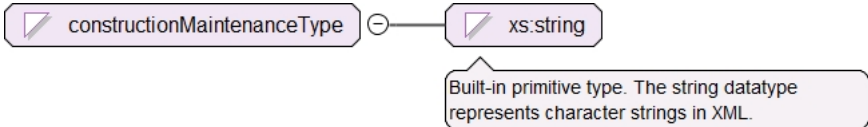
Diagram			
Type	restriction of xs:string		
Facets	enumeration	TOWN	
	enumeration	COUNTY	
	enumeration	SUBDISTRICT	
	enumeration	DISTRICT	
	enumeration	STATEWIDE	
Used by	Element	eventLocation/Area/AreaType	
Source	<pre>&lt;xs:simpleType name="areaEventType"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="TOWN"/&gt;     &lt;xs:enumeration value="COUNTY"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>		

```
<xs:enumeration value="SUBDISTRICT" />
<xs:enumeration value="DISTRICT" />
<xs:enumeration value="STATEWIDE" />
</xs:restriction>
</xs:simpleType>
```

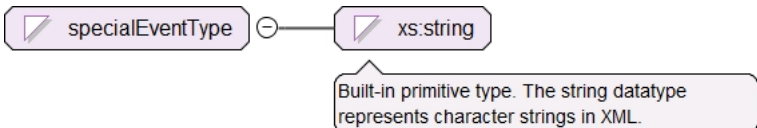
## Simple Type plannedEventType

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>&lt;xs:simpleType name="plannedEventType"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="CONSTRUCTION/MAINTENANCE" /&gt;     &lt;xs:enumeration value="SPECIAL_EVENT" /&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>				

## Simple Type constructionMaintenanceType

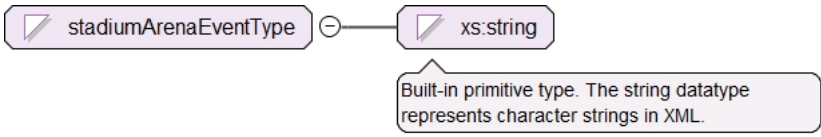
Diagram											
Type	restriction of xs:string										
Facets	<table> <tr> <td>enumeration</td><td>ROADWAY_ACTIVITY</td></tr> <tr> <td>enumeration</td><td>BRIDGE_ACTIVITY</td></tr> <tr> <td>enumeration</td><td>TUNNEL_ACTIVITY</td></tr> <tr> <td>enumeration</td><td>FACILITY_ACTIVITY</td></tr> <tr> <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>&lt;xs:simpleType name="constructionMaintenanceType"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="ROADWAY_ACTIVITY" /&gt;     &lt;xs:enumeration value="BRIDGE_ACTIVITY" /&gt;     &lt;xs:enumeration value="TUNNEL_ACTIVITY" /&gt;     &lt;xs:enumeration value="FACILITY_ACTIVITY" /&gt;     &lt;xs:enumeration value="UTILITY_ACTIVITY" /&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>										

## Simple Type specialEventType

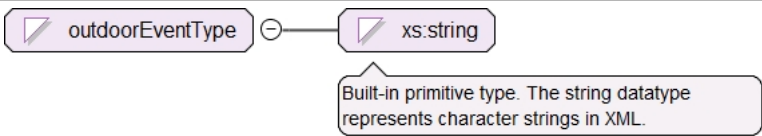
Diagram											
Type	restriction of xs:string										
Facets	<table> <tr> <td>enumeration</td><td>STADIUM/ARENA_EVENT</td></tr> <tr> <td>enumeration</td><td>OUTDOOR_EVENT</td></tr> <tr> <td>enumeration</td><td>VIP_VISIT</td></tr> <tr> <td>enumeration</td><td>ATHLETIC_EVENT</td></tr> <tr> <td>enumeration</td><td>FUNERAL_PROCESSION</td></tr> </table>	enumeration	STADIUM/ARENA_EVENT	enumeration	OUTDOOR_EVENT	enumeration	VIP_VISIT	enumeration	ATHLETIC_EVENT	enumeration	FUNERAL_PROCESSION
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>&lt;xs:simpleType name="specialEventType"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="STADIUM/ARENA_EVENT" /&gt;     &lt;xs:enumeration value="OUTDOOR_EVENT" /&gt;     &lt;xs:enumeration value="VIP_VISIT" /&gt;     &lt;xs:enumeration value="ATHLETIC_EVENT" /&gt;     &lt;xs:enumeration value="FUNERAL_PROCESSION" /&gt;     &lt;xs:enumeration value="TRAINING/DRILL" /&gt;     &lt;xs:enumeration value="OTHER" /&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>	

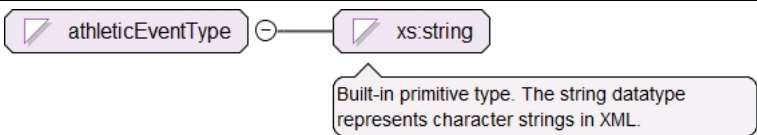
## Simple Type stadiumArenaEventType

Diagram		
Type	restriction of xs:string	
Facets	enumeration	PAVILION_EVENT
	enumeration	GILLETTE_STADIUM_EVENT
	enumeration	BCEC_EVENT
	enumeration	OTHER
Source	<pre>&lt;xs:simpleType name="stadiumArenaEventType"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="PAVILION_EVENT" /&gt;     &lt;xs:enumeration value="GILLETTE_STADIUM_EVENT" /&gt;     &lt;xs:enumeration value="BCEC_EVENT" /&gt;     &lt;xs:enumeration value="OTHER" /&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>	

## Simple Type outdoorEventType

Diagram		
Type	restriction of xs:string	
Facets	enumeration	AIRSHOW
	enumeration	FIREWORKS_DISPLAY
	enumeration	MOVIE_FILMING
	enumeration	GENERAL_OUTDOOR_EVENT
Source	<pre>&lt;xs:simpleType name="outdoorEventType"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="AIRSHOW" /&gt;     &lt;xs:enumeration value="FIREWORKS_DISPLAY" /&gt;     &lt;xs:enumeration value="MOVIE_FILMING" /&gt;     &lt;xs:enumeration value="GENERAL_OUTDOOR_EVENT" /&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>	

## Simple Type athleticEventType

Diagram		
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Type	restriction of xs:string
Facets	enumeration MARATHON
	enumeration ROAD_RACE
	enumeration BIKE_RACE
	enumeration CHARITY_WALK
Source	<pre>&lt;xs:simpleType name="athleticEventType"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="MARATHON" /&gt;     &lt;xs:enumeration value="ROAD_RACE" /&gt;     &lt;xs:enumeration value="BIKE_RACE" /&gt;     &lt;xs:enumeration value="CHARITY_WALK" /&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>

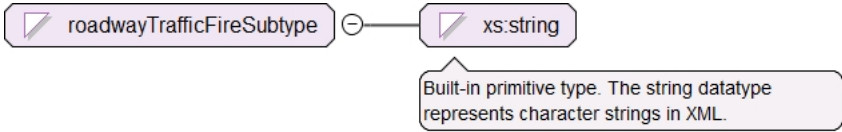
## Simple Type unplannedEventCategory

Diagram	<pre> graph LR     A[unplannedEventCategory] --- B(( ))     B --- C[xs:string]     C --- D[Built-in primitive type. The string datatype represents character strings in XML.] </pre>
Type	restriction of xs:string
Facets	enumeration ROADWAY/TRAFFIC
	enumeration ACTS_OF_NATURE
Used by	Attribute unplannedEvent/@category
Source	<pre>&lt;xs:simpleType name="unplannedEventCategory"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="ROADWAY/TRAFFIC" /&gt;     &lt;xs:enumeration value="ACTS_OF_NATURE" /&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>

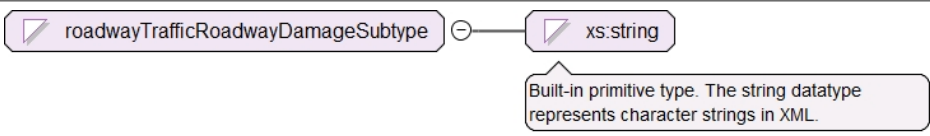
## Simple Type roadwayTrafficType

Diagram	<pre> graph LR     A[roadwayTrafficType] --- B(( ))     B --- C[xs:string]     C --- D[Built-in primitive type. The string datatype represents character strings in XML.] </pre>
Type	restriction of xs:string
Facets	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>&lt;xs:simpleType name="roadwayTrafficType"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="CRASH" /&gt;     &lt;xs:enumeration value="DISABLED_MOTOR_VEHICLE" /&gt;     &lt;xs:enumeration value="FIRE" /&gt;     &lt;xs:enumeration value="ROADWAY_DAMAGE" /&gt;     &lt;xs:enumeration value="ROADWAY_OBSTRUCTION" /&gt;     &lt;xs:enumeration value="CONGESTION" /&gt;     &lt;xs:enumeration value="GENERAL_ROADWAY/TRAFFIC" /&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>

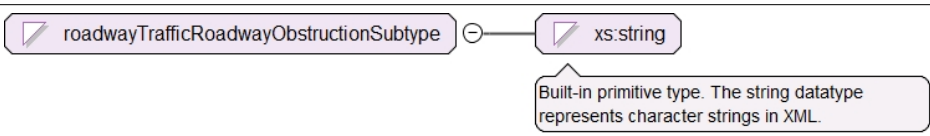
## Simple Type roadwayTrafficFireSubtype

Diagram							
Type	restriction of xs:string						
Facets	<table><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>&lt;xs:simpleType name="roadwayTrafficFireSubtype"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="VEHICLE_FIRE" /&gt;     &lt;xs:enumeration value="FACILITY_FIRE_AFFECTING_ROADWAY" /&gt;     &lt;xs:enumeration value="BRUSH/FOREST_FIRE" /&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>						

## Simple Type roadwayTrafficRoadwayDamageSubtype

Diagram													
Type	restriction of xs:string												
Facets	<table><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><tr><td>enumeration</td><td>WATER_DAMAGE</td></tr><tr><td>enumeration</td><td>SEWER_DAMAGE</td></tr><tr><td>enumeration</td><td>GAS_LEAK</td></tr></table>	enumeration	STORM_DAMAGE	enumeration	ROAD_SURFACE_COLLAPSE	enumeration	POTHOLE	enumeration	WATER_DAMAGE	enumeration	SEWER_DAMAGE	enumeration	GAS_LEAK
enumeration	STORM_DAMAGE												
enumeration	ROAD_SURFACE_COLLAPSE												
enumeration	POTHOLE												
enumeration	WATER_DAMAGE												
enumeration	SEWER_DAMAGE												
enumeration	GAS_LEAK												
Source	<pre>&lt;xs:simpleType name="roadwayTrafficRoadwayDamageSubtype"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="STORM_DAMAGE" /&gt;     &lt;xs:enumeration value="ROAD_SURFACE_COLLAPSE" /&gt;     &lt;xs:enumeration value="POTHOLE" /&gt;     &lt;xs:enumeration value="WATER_DAMAGE" /&gt;     &lt;xs:enumeration value="SEWER_DAMAGE" /&gt;     &lt;xs:enumeration value="GAS_LEAK" /&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>												

## Simple Type roadwayTrafficRoadwayObstructionSubtype

Diagram													
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></table>	enumeration	FALLEN_TREES	enumeration	DOWNED_SIGN	enumeration	DOWNED_UTILITY_POLE	enumeration	DOWNED_POWER_LINE	enumeration	DOWNED_CABLES	enumeration	CRASH_INVESTIGATION_WORK
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> &lt;xs:simpleType name="roadwayTrafficRoadwayObstructionSubtype"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="FALLEN_TREES" /&gt;     &lt;xs:enumeration value="DOWNED_SIGN" /&gt;     &lt;xs:enumeration value="DOWNED_UTILITY_POLE" /&gt;     &lt;xs:enumeration value="DOWNED_POWER_LINE" /&gt;     &lt;xs:enumeration value="DOWNED_CABLES" /&gt;     &lt;xs:enumeration value="CRASH_INVESTIGATION_WORK" /&gt;     &lt;xs:enumeration value="GENERAL_OBSTRUCTION/DEBRIS" /&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>

## Simple Type actsOfNatureType

Diagram	
Type	restriction of xs:string
Facets	enumeration LOCAL_WEATHER_EVENT enumeration ADVISORY/WATCH/WARNING
Used by	Attribute actsOfNatureSpecifics/@type
Source	<pre> &lt;xs:simpleType name="actsOfNatureType"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="LOCAL_WEATHER_EVENT" /&gt;     &lt;xs:enumeration value="ADVISORY/WATCH/WARNING" /&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>

## Complex Type(s)

### Complex Type latlon

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



## Complex Type locationPoint

Diagram	
Used by	Elements eventLocation/Point, eventLocation/Range/End, eventLocation/Range/Start, eventLocation/Range/Waypoint
Model	RoadwayName , Coordinates
Children	Coordinates, RoadwayName
Source	<pre> &lt;xs:complexType name="locationPoint"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="RoadwayName" type="xs:string" /&gt;     &lt;xs:element name="Coordinates" type="latlon" /&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>

## Complex Type eventLocation

Diagram	
Used by	Element event/Location
Model	Point   Range   Area
Children	Area, Point, Range
Source	<pre> &lt;xs:complexType name="eventLocation"&gt;   &lt;xs:choice&gt;     &lt;xs:element name="Point" type="locationPoint" /&gt;     &lt;xs:element name="Range"&gt;       &lt;xs:complexType&gt;         &lt;xs:sequence&gt;           &lt;xs:element name="Start" type="locationPoint" /&gt;           &lt;xs:element name="Waypoint" type="locationPoint" minOccurs="0" maxOccurs="unbounded" /&gt;           &lt;xs:element name="End" type="locationPoint" /&gt;         &lt;/xs:sequence&gt;       &lt;/xs:complexType&gt;     &lt;/xs:element&gt;     &lt;xs:element name="Area"&gt;       &lt;xs:complexType&gt;         &lt;xs:sequence&gt;           &lt;xs:element name="AreaType" type="areaEventType" /&gt;           &lt;xs:element name="AreaValue" type="xs:string" maxOccurs="unbounded" /&gt;         &lt;/xs:sequence&gt;       &lt;/xs:complexType&gt;     &lt;/xs:element&gt;   &lt;/xs:choice&gt; &lt;/xs:complexType&gt; </pre>

## Complex Type laneInfo

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

Used by	Element event/LaneInfo
Model	Direction , LanesAffected
Children	Direction, LanesAffected
Source	<pre>&lt;xs:complexType name="laneInfo"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="Direction" type="xs:string"/&gt;     &lt;xs:element name="LanesAffected" type="xs:string"/&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt;</pre>

## Complex Type eventOccurence

Diagram	
Used by	Element plannedEvent/Occurrences/Occurrence
Model	StartDateTime , EndDateTime
Children	EndDateTime, StartDateTime
Source	<pre>&lt;xs:complexType name="eventOccurence"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="StartDateTime" type="xs:dateTime"/&gt;     &lt;xs:element name="EndDateTime" type="xs:dateTime"/&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt;</pre>

## 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
Source	<pre> &lt;xs:complexType name="event"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="Name" type="xs:string"/&gt;     &lt;xs:element name="CreatedAt" type="xs:dateTime"/&gt;     &lt;xs:element name="ConfirmedAt" type="xs:dateTime"/&gt;     &lt;xs:element name="UpdatedAt" type="xs:dateTime"/&gt;     &lt;xs:element name="StartDate" type="xs:dateTime"/&gt;     &lt;xs:element name="Location" type="eventLocation"/&gt;     &lt;xs:element name="Status" type="eventStatus"/&gt;     &lt;xs:element name="LaneInfo" type="laneInfo" minOccurs="0"/&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>

## Complex Type constructionMaintenanceSpecifics

Diagram	<p>The diagram illustrates the structure of the <code>constructionMaintenanceSpecifics</code> complex type. It consists of a main box labeled <code>constructionMaintenanceSpecifics</code> which is connected to an <code>@ Attributes</code> box. Inside the <code>@ Attributes</code> box, there is a <code>@ subtype</code> box. The <code>@ subtype</code> box has a <code>Type</code> attribute set to <code>constructionMaintenanceType</code>. The <code>@ Attributes</code> box also has a <code>+</code> symbol, indicating that the attribute is required.</p>											
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></tbody></table>	QName	Type	Use		subtype	constructionMaintenanceType	required				
QName	Type	Use										
subtype	constructionMaintenanceType	required										
Source	<pre>&lt;xs:complexType name="constructionMaintenanceSpecifics"&gt;   &lt;xs:attribute name="subtype" type="constructionMaintenanceType" use="required"/&gt; &lt;/xs:complexType&gt;</pre>											

## Complex Type specialEventSpecifics

Diagram												
Model	SpecialEventCharacteristics{0,1}											
Children	SpecialEventCharacteristics											
Attributes	<table><tr><th>QName</th><th>Type</th><th>Use</th><th></th></tr><tr><td>subtype</td><td>specialEventType</td><td>required</td><td></td></tr></table>	QName	Type	Use		subtype	specialEventType	required				
QName	Type	Use										
subtype	specialEventType	required										
Source	<pre>&lt;xs:complexType name="specialEventSpecifics"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="SpecialEventCharacteristics" type="xs:string" minOccurs="0"&gt;       &lt;xs:alternative test="@subtype = 'STADIUM/ARENA_EVENT'" type="stadiumArenaEventType"/&gt;       &lt;xs:alternative test="@subtype = 'OUTDOOR_EVENT'" type="outdoorEventType"/&gt;       &lt;xs:alternative test="@subtype = 'ATHLETIC_EVENT'" type="athleticEventType"/&gt;     &lt;/xs:element&gt;   &lt;/xs:sequence&gt;   &lt;xs:attribute name="subtype" type="specialEventType" use="required"/&gt; &lt;/xs:complexType&gt;</pre>											

## Complex Type plannedEvent

Diagram	<p>The diagram illustrates the structure of the <b>plannedEvent</b> complex type. It is an extension of the <b>event</b> type. The <b>plannedEvent</b> type contains the following elements and attributes:</p> <ul style="list-style-type: none"> <li><b>Attributes:</b> <ul style="list-style-type: none"> <li><b>@ type</b> (Type: <b>plannedEventType</b>)</li> </ul> </li> <li><b>Elements (Sequence):</b> <ul style="list-style-type: none"> <li><b>Name</b> (Type: <b>xs:string</b>)</li> <li><b>CreatedAt</b> (Type: <b>xs:dateTime</b>)</li> <li><b>ConfirmedAt</b> (Type: <b>xs:dateTime</b>)</li> <li><b>UpdatedAt</b> (Type: <b>xs:dateTime</b>)</li> <li><b>StartDate</b> (Type: <b>xs:dateTime</b>)</li> <li><b>Location</b> (Type: <b>eventLocation</b>)</li> <li><b>Status</b> (Type: <b>eventStatus</b>)</li> <li><b>LaneInfo</b> (Type: <b>laneInfo</b>)</li> </ul> </li> <li><b>Elements (Sequence):</b> <ul style="list-style-type: none"> <li><b>EndDate</b> (Type: <b>xs:dateTime</b>)</li> <li><b>TypeSpecific</b></li> <li><b>Occurrences</b></li> </ul> </li> </ul>			
Type	extension of event			
Type hierarchy	<ul style="list-style-type: none"> <li>event</li> <li>plannedEvent</li> </ul>			
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	
Source	<pre>&lt;xs:complexType name="plannedEvent"&gt;   &lt;xs:complexContent&gt;     &lt;xs:extension base="event"&gt;       &lt;xs:sequence&gt;</pre>			

```

<xs:element name="EndDate" type="xs:dateTime"/>
<xs:element name="TypeSpecific">
  <xs:alternative test="@type = 'CONSTRUCTION/MAINTENANCE'"
type="constructionMaintenanceSpecifics"/>
  <xs:alternative test="@type = 'SPECIAL_EVENT'" type="specialEventSpecifics"/>
</xs:element>
<xs:element name="Occurrences">
  <xs:complexType>
    <xs:sequence maxOccurs="20">
      <!-- NOTE arbitrary cap -->
      <xs:element name="Occurrence" type="eventOccurrence"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:sequence>
<xs:attribute name="type" type="plannedEventType" use="required"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

## Complex Type advisoryWatchWarningCharacteristics

Diagram	
Used by	Element actsOfNatureSpecifics/Characteristics
Model	ID , Category , EventType , Location+ , StartDateTime , EndDateTime
Children	Category, EndDateTime, EventType, ID, Location, StartDateTime
Source	<pre> &lt;xs:complexType name="advisoryWatchWarningCharacteristics"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="ID" type="xs:integer"/&gt;     &lt;!-- ensure this is described in the docs --&gt;     &lt;xs:element name="Category"&gt;       &lt;xs:simpleType&gt;         &lt;xs:restriction base="xs:string"&gt;           &lt;xs:enumeration value="ADVISORY"/&gt;           &lt;xs:enumeration value="WATCH"/&gt;           &lt;xs:enumeration value="WARNING"/&gt;         &lt;/xs:restriction&gt;       &lt;/xs:simpleType&gt;     &lt;/xs:element&gt;     &lt;xs:element name="EventType" type="xs:string"/&gt;     &lt;xs:element name="Location" maxOccurs="unbounded"/&gt;     &lt;!-- county name, 'STATEWIDE', or many county names --&gt;     &lt;xs:element name="StartDateTime" type="xs:dateTime"/&gt;     &lt;xs:element name="EndDateTime" type="xs:dateTime"/&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>

## Complex Type roadwayTrafficCharacteristics

Diagram	
Used by	Element roadwayTrafficSpecifcics/Characteristics
Model	HasSpeedRestriction , IsWithinWorkZone , IsBoreClosureRequired
Children	HasSpeedRestriction, IsBoreClosureRequired, IsWithinWorkZone
Source	<pre> &lt;xs:complexType name="roadwayTrafficCharacteristics"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="HasSpeedRestriction" type="xs:boolean"/&gt;     &lt;xs:element name="IsWithinWorkZone" type="xs:boolean"/&gt;     &lt;xs:element name="IsBoreClosureRequired" type="xs:boolean"/&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>

## Complex Type roadwayTrafficSpecifcics

Diagram									
Model	Subtype , Characteristics {0,1}								
Children	Characteristics, Subtype								
Attributes	<table><tr><th>QName</th><th>Type</th><th>Use</th><th></th></tr><tr><td>type</td><td>roadwayTrafficType</td><td>required</td><td></td></tr></table>	QName	Type	Use		type	roadwayTrafficType	required	
QName	Type	Use							
type	roadwayTrafficType	required							
Source	<pre>&lt;xs:complexType name="roadwayTrafficSpecifcics"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="Subtype" type="xs:string"&gt;       &lt;xs:alternative test="@type = 'FIRE'" type="roadwayTrafficFireSubtype"/&gt;       &lt;xs:alternative test="@type = 'ROADWAY_DAMAGE'" type="roadwayTrafficRoadwayDamageSubtype"/&gt;       &lt;xs:alternative test="@type = 'ROADWAY_OBSTRUCTION'"         type="roadwayTrafficRoadwayObstructionSubtype"/&gt;     &lt;/xs:element&gt;     &lt;xs:element name="Characteristics" type="roadwayTrafficCharacteristics" minOccurs="0"/&gt;   &lt;/xs:sequence&gt;   &lt;xs:attribute name="type" type="roadwayTrafficType" use="required"/&gt; &lt;/xs:complexType&gt;</pre>								

## Complex Type actsOfNatureSpecifics

Diagram				
Model	Characteristics{0,1}			
Children	Characteristics			
Attributes	<b>QName</b>	<b>Type</b>	<b>Use</b>	
	type	actsOfNatureType	required	
Source	<pre> &lt;xs:complexType name="actsOfNatureSpecifics"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="Characteristics" type="advisoryWatchWarningCharacteristics" minOccurs="0"/&gt;   &lt;/xs:sequence&gt;   &lt;xs:attribute name="type" type="actsOfNatureType" use="required"/&gt; &lt;/xs:complexType&gt; </pre>			

## Complex Type unplannedEvent

Diagram				
Type	extension of event			
Type hierarchy	<ul style="list-style-type: none"> <li>event</li> <li>unplannedEvent</li> </ul>			
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	
Source	<pre> &lt;xs:complexType name="unplannedEvent"&gt;   &lt;xs:complexContent&gt;     &lt;xs:extension base="event"&gt;       &lt;xs:sequence&gt;         &lt;xs:element name="CategorySpecific"&gt;           &lt;xs:alternative test="@category = 'ROADWAY/TRAFFIC'" type="roadwayTrafficSpecifics"/&gt;           &lt;xs:alternative test="@category = 'ACTS_OF_NATURE'" type="actsOfNatureSpecifics"/&gt;         &lt;/xs:element&gt;       &lt;/xs:sequence&gt;       &lt;xs:attribute name="category" type="unplannedEventCategory" use="required"/&gt;     &lt;/xs:extension&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>			



```
</xs:complexType>
```

## Attribute(s)

### Attribute constructionMaintenanceSpecifics / @subtype

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	<xs:attribute name="subtype" type="constructionMaintenanceType" use="required" />	

### Attribute specialEventSpecifics / @subtype

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	<xs:attribute name="subtype" type="specialEventType" use="required" />	

### Attribute plannedEvent / @type

Type	plannedEventType	
Properties	use:	required
Facets	enumeration	CONSTRUCTION/MAINTENANCE
	enumeration	SPECIAL_EVENT
Used by	Complex Type	plannedEvent
Source	<xs:attribute name="type" type="plannedEventType" use="required" />	

### Attribute roadwayTrafficSpecifics / @type

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	<code>&lt;xs:attribute name="type" type="roadwayTrafficType" use="required"/&gt;</code>

### Attribute actsOfNatureSpecifics / @type

Type	actsOfNatureType
Properties	use:                  required
Facets	enumeration          LOCAL_WEATHER_EVENT
	enumeration          ADVISORY/WATCH/WARNING
Used by	Complex Type      actsOfNatureSpecifics
Source	<code>&lt;xs:attribute name="type" type="actsOfNatureType" use="required"/&gt;</code>

### Attribute unplannedEvent / @category

Type	unplannedEventCategory
Properties	use:                  required
Facets	enumeration          ROADWAY/TRAFFIC
	enumeration          ACTS_OF_NATURE
Used by	Complex Type      unplannedEvent
Source	<code>&lt;xs:attribute name="category" type="unplannedEventCategory" use="required"/&gt;</code>