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1  <?xml version="1.0" encoding="utf-8" standalone="no"?>
2  <!-- French C-ITS projects such as CROADS, SCOOP, Intercor,...
3  Document: XML schema definition for adapted DATEX II v2.3 messages in conjunction
4  with C-ITS messages between PF and The ITS Stations : R-ITS-S, Vro-ITS-S, fr-ITS-S.
5  Date of publication: 27/05/2019
6  Responsable, Entity: Émilie Petit, CEREMA
7  Number : 2.4.1.4_ annexe 6
8
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10 Jean-Luc / ROBIN Vincent / AUDIGE Aymeric
11 List of versions :
12 0.01 : Creation
13 0.02 : 07/01/2019 : Adding of Locations of the Zones (detections and relevance) from
14 Location to GroupOfLocations for SCOOP Project
15 0.03 : 22/03/2019: Adding of ExtendedVmsMessage class with IviIdentification and
16 validTo.
17 0.04 : 27/05/2019: Renamed in PFroDatexII
18 0.10 : 19/08/2019: Validated
19 4.00 : 13/11/2019 : Released -->
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maxOccurs="unbounded" />
    </xs:sequence>
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    </xs:complexContent>
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57     <xs:attribute name="groupIndex" type="xs:int" use="required" />
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62             minOccurs="1" maxOccurs="1" />
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92             maxOccurs="1" />
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99             <xs:attribute name="targetClass" use="required"
100                 fixed="MeasurementSiteRecord" />
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106         <xs:extension base="D2LogicalModel:VersionedReference">
107             <xs:attribute name="targetClass" use="required" fixed="MeasurementSiteTable"
108                 />
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110     </xs:complexContent>
111 </xs:complexType>
112 <xs:complexType name="_ParkingAccessReference">
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115             <xs:attribute name="targetClass" use="required" fixed="ParkingAccess" />
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121 ">
122     <xs:sequence>
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124             type="D2LogicalModel:ParkingEquipmentOrServiceFacility" minOccurs="1"
125             maxOccurs="1" />
126     </xs:sequence>
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115     use="required" />
116 </xs:complexType>
117 <xs:complexType
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119   <xs:sequence>
120     <xs:element name="parkingEquipmentOrServiceFacilityStatus"
121       type="D2LogicalModel:ParkingEquipmentOrServiceFacilityStatus" minOccurs="1"
122       maxOccurs="1" />
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124   <xs:attribute name="equipmentOrServiceFacilityIndex" type="xs:int"
125     use="required" />
126 </xs:complexType>
127 <xs:complexType name="_ParkingRecordStatusGroupIndexGroupOfParkingSpacesStatus">
128   <xs:sequence>
129     <xs:element name="groupOfParkingSpacesStatus"
130       type="D2LogicalModel:GroupOfParkingSpacesStatus" minOccurs="1" maxOccurs="1" />
131   </xs:sequence>
132   <xs:attribute name="groupIndex" type="xs:int" use="required" />
133 </xs:complexType>
134 <xs:complexType name="_ParkingRecordStatusParkingSpaceIndexParkingSpaceStatus">
135   <xs:sequence>
136     <xs:element name="parkingSpaceStatus" type="D2LogicalModel:ParkingSpaceStatus"
137       minOccurs="1" maxOccurs="1" />
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139   <xs:attribute name="parkingSpaceIndex" type="xs:int" use="required" />
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144       type="D2LogicalModel:ParkingUsageScenarioStatus" minOccurs="1" maxOccurs="1" />
145   </xs:sequence>
146   <xs:attribute name="scenarioIndex" type="xs:int" use="required" />
147 </xs:complexType>
148 <xs:complexType name="_ParkingRecordVersionedReference">
149   <xs:complexContent>
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154 </xs:complexType>
155 <xs:complexType name="_ParkingRouteDetailsVersionedReference">
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158       <xs:attribute name="targetClass" use="required" fixed="ParkingRouteDetails" />
159     </xs:extension>
160   </xs:complexContent>
161 </xs:complexType>
162 <xs:complexType name="_ParkingSiteScenarioIndexParkingUsageScenario">
163   <xs:sequence>
164     <xs:element name="parkingUsageScenario"
165       type="D2LogicalModel:ParkingUsageScenario" minOccurs="1" maxOccurs="1" />
166   </xs:sequence>
167   <xs:attribute name="scenarioIndex" type="xs:int" use="required" />
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169 <xs:complexType name="_ParkingSpace">
170   <xs:sequence>
171     <xs:element name="parkingSpaceBasics" type="D2LogicalModel:ParkingSpaceBasics"
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175 </xs:complexType>
176 <xs:complexType
177   name="_ParkingSpaceBasicsEquipmentOrServiceFacilityIndexParkingEquipmentOrServiceFacility">
178   <xs:sequence>
179     <xs:element name="parkingEquipmentOrServiceFacility"
180       type="D2LogicalModel:ParkingEquipmentOrServiceFacility" minOccurs="1"
181       maxOccurs="1" />
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183   <xs:attribute name="equipmentOrServiceFacilityIndex" type="xs:int"
184     use="required" />

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171 </xs:complexType>
172 <xs:complexType name="_ParkingSpaceBasicsScenarioIndexParkingUsageScenario">
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175       type="D2LogicalModel:ParkingUsageScenario" minOccurs="1" maxOccurs="1" />
176   </xs:sequence>
177   <xs:attribute name="scenarioIndex" type="xs:int" use="required" />
178 </xs:complexType>
179 <xs:complexType name="_ParkingTableVersionedReference">
180   <xs:complexContent>
181     <xs:extension base="D2LogicalModel:VersionedReference">
182       <xs:attribute name="targetClass" use="required" fixed="ParkingTable" />
183     </xs:extension>
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185 </xs:complexType>
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187   <xs:sequence>
188     <xs:element name="periodExtended" type="D2LogicalModel:PeriodExtended"
189       minOccurs="0" />
190     <xs:any namespace="##other" processContents="lax" minOccurs="0"
191       maxOccurs="unbounded" />
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207       minOccurs="1" maxOccurs="1" />
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216   <xs:attribute name="index" type="xs:int" use="required" />
217 </xs:complexType>
218 <xs:complexType name="_PredefinedItineraryVersionedReference">
219   <xs:complexContent>
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221       <xs:attribute name="targetClass" use="required" fixed="PredefinedItinerary" />
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224 </xs:complexType>
225 <xs:complexType name="_PredefinedLocationVersionedReference">
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228       <xs:attribute name="targetClass" use="required" fixed="PredefinedLocation" />
229     </xs:extension>
230   </xs:complexContent>
231 </xs:complexType>
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233   <xs:complexContent>
234     <xs:extension base="D2LogicalModel:VersionedReference">
235       <xs:attribute name="targetClass" use="required"
236         fixed="PredefinedNonOrderedLocationGroup" />
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238   </xs:complexContent>
239 </xs:complexType>
240 <xs:complexType name="_SiteMeasurementsIndexMeasuredValue">
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234         minOccurs="1" maxOccurs="1" />
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242             maxOccurs="unbounded" />
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248             <xs:attribute name="targetClass" use="required" fixed="SituationRecord" />
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299 <xs:complexType name="_VmsMessagePictogramDisplayAreaIndexVmsPictogramDisplayArea">
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339   <xs:complexContent>
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352   <xs:complexContent>
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354       <xs:sequence>
355         <xs:element name="abnormalTrafficType"
356           type="D2LogicalModel:AbnormalTrafficTypeEnum" minOccurs="0" maxOccurs="1" />
357         <xs:element name="numberOfVehiclesWaiting"
358           type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
359         <xs:element name="queueLength"
360           type="D2LogicalModel:MetresAsNonNegativeInteger" minOccurs="0"
361           maxOccurs="1" />
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351     <xs:element name="trafficFlowCharacteristics"
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maxOccurs="1" />
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358 <xs:simpleType name="AbnormalTrafficTypeEnum">
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361     <xs:enumeration value="queuingTraffic" />
362     <xs:enumeration value="slowTraffic" />
363     <xs:enumeration value="heavyTraffic" />
364     <xs:enumeration value="unspecifiedAbnormalTraffic" />
365     <xs:enumeration value="other" />
366   </xs:restriction>
367 </xs:simpleType>
368 <xs:complexType name="AcceptedPaymentCards">
369   <xs:sequence>
370     <xs:element name="paymentCards" type="D2LogicalModel:PaymentCardTypesEnum"
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371     <xs:element name="otherPaymentCards" type="D2LogicalModel:String"
minOccurs="0" maxOccurs="unbounded" />
372     <xs:element name="paymentCardBrands"
type="D2LogicalModel:PaymentCardBrandsEnum" minOccurs="0"
maxOccurs="unbounded" />
373     <xs:element name="otherPaymentCardBrands" type="D2LogicalModel:String"
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type="D2LogicalModel:_ExtensionType" minOccurs="0" />
375   </xs:sequence>
376 </xs:complexType>
377 <xs:simpleType name="AccessCategoryEnum">
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379     <xs:enumeration value="vehicleEntranceAndExit" />
380     <xs:enumeration value="vehicleEntrance" />
381     <xs:enumeration value="vehicleExit" />
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383     <xs:enumeration value="pedestrianEntrance" />
384     <xs:enumeration value="pedestrianExit" />
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397     <xs:enumeration value="ticketButtonMachine" />
398     <xs:enumeration value="ticketCardMachine" />
399     <xs:enumeration value="payAndExitMachine" />
400     <xs:enumeration value="other" />
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403 <xs:simpleType name="AccessibilityEnum">
404   <xs:restriction base="xs:string">
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407     <xs:enumeration value="wheelChairAccessible" />
408     <xs:enumeration value="handicappedEasements" />
409     <xs:enumeration value="orientationSystemForBlindPeople" />
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413     <xs:enumeration value="other" />
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415 </xs:simpleType>
416 <xs:complexType name="Accident">
417   <xs:complexContent>
418     <xs:extension base="D2LogicalModel:TrafficElement">
419       <xs:sequence>
420         <xs:element name="accidentCause" type="D2LogicalModel:AccidentCauseEnum"
421           minOccurs="0" maxOccurs="1" />
422         <xs:element name="accidentType" type="D2LogicalModel:AccidentTypeEnum"
423           minOccurs="1" maxOccurs="unbounded" />
424         <xs:element name="totalNumberOfPeopleInvolved"
425           type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
426         <xs:element name="totalNumberOfVehiclesInvolved"
427           type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
428         <xs:element name="vehicleInvolved" type="D2LogicalModel:Vehicle"
429           minOccurs="0" maxOccurs="unbounded" />
430         <xs:element name="groupOfVehiclesInvolved"
431           type="D2LogicalModel:GroupOfVehiclesInvolved" minOccurs="0"
432           maxOccurs="unbounded" />
433         <xs:element name="groupOfPeopleInvolved"
434           type="D2LogicalModel:GroupOfPeopleInvolved" minOccurs="0"
435           maxOccurs="unbounded" />
436         <xs:element name="accidentExtension" type="D2LogicalModel:_ExtensionType"
437           minOccurs="0" />
438       </xs:sequence>
439     </xs:extension>
440   </xs:complexContent>
441 </xs:complexType>
442 <xs:simpleType name="AccidentCauseEnum">
443   <xs:restriction base="xs:string">
444     <xs:enumeration value="avoidanceOfObstacles" />
445     <xs:enumeration value="driverDistraction" />
446     <xs:enumeration value="driverDrugAbuse" />
447     <xs:enumeration value="driverIllness" />
448     <xs:enumeration value="exceedingSpeedsLimits" />
449     <xs:enumeration value="excessAlcohol" />
450     <xs:enumeration value="excessiveDriverTiredness" />
451     <xs:enumeration value="impermissibleManoeuvre" />
452     <xs:enumeration value="limitedVisibility" />
453     <xs:enumeration value="notKeepingASafeDistance" />
454     <xs:enumeration value="onTheWrongSideOfTheRoad" />
455     <xs:enumeration value="pedestrianInRoad" />
456     <xs:enumeration value="poorLaneAdherence" />
457     <xs:enumeration value="poorMergeEntryOrExitJudgement" />
458     <xs:enumeration value="poorRoadSurfaceCondition" />
459     <xs:enumeration value="poorSurfaceAdherence" />
460     <xs:enumeration value="undisclosed" />
461     <xs:enumeration value="unknown" />
462     <xs:enumeration value="vehicleFailure" />
463     <xs:enumeration value="other" />
464   </xs:restriction>
465 </xs:simpleType>
466 <xs:simpleType name="AccidentTypeEnum">
467   <xs:restriction base="xs:string">
468     <xs:enumeration value="accident" />
469     <xs:enumeration value="accidentInvolvingBicycles" />
470     <xs:enumeration value="accidentInvolvingBuses" />
471     <xs:enumeration value="accidentInvolvingHazardousMaterials" />
472     <xs:enumeration value="accidentInvolvingHeavyLorries" />
473     <xs:enumeration value="accidentInvolvingMassTransitVehicle" />
474     <xs:enumeration value="accidentInvolvingMopeds" />
475     <xs:enumeration value="accidentInvolvingMotorcycles" />
476     <xs:enumeration value="accidentInvolvingRadioactiveMaterial" />
477     <xs:enumeration value="accidentInvolvingTrain" />
478     <xs:enumeration value="chemicalSpillageAccident" />
479     <xs:enumeration value="collision" />
480     <xs:enumeration value="collisionWithAnimal" />
481     <xs:enumeration value="collisionWithObstruction" />
482     <xs:enumeration value="collisionWithPerson" />
483     <xs:enumeration value="earlierAccident" />
484     <xs:enumeration value="fuelSpillageAccident" />

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475     <xs:enumeration value="headOnCollision" />
476     <xs:enumeration value="headOnOrSideCollision" />
477     <xs:enumeration value="jackknifedArticulatedLorry" />
478     <xs:enumeration value="jackknifedCaravan" />
479     <xs:enumeration value="jackknifedTrailer" />
480     <xs:enumeration value="multipleVehicleCollision" />
481     <xs:enumeration value="multivehicleAccident" />
482     <xs:enumeration value="oilSpillageAccident" />
483     <xs:enumeration value="overturnedHeavyLorry" />
484     <xs:enumeration value="overturnedTrailer" />
485     <xs:enumeration value="overturnedVehicle" />
486     <xs:enumeration value="rearCollision" />
487     <xs:enumeration value="secondaryAccident" />
488     <xs:enumeration value="seriousAccident" />
489     <xs:enumeration value="sideCollision" />
490     <xs:enumeration value="vehicleOffRoad" />
491     <xs:enumeration value="vehicleSpunAround" />
492     <xs:enumeration value="other" />
493 </xs:restriction>
494 </xs:simpleType>
495 <xs:complexType name="Activity" abstract="true">
496     <xs:complexContent>
497         <xs:extension base="D2LogicalModel:TrafficElement">
498             <xs:sequence>
499                 <xs:element name="mobilityOfActivity" type="D2LogicalModel:Mobility"
500                     minOccurs="0" />
501                 <xs:element name="activityExtension" type="D2LogicalModel:_ExtensionType"
502                     minOccurs="0" />
503             </xs:sequence>
504         </xs:extension>
505     </xs:complexContent>
506 </xs:complexType>
507 <xs:complexType name="AffectedCarriagewayAndLanes">
508     <xs:sequence>
509         <xs:element name="carriageway" type="D2LogicalModel:CarriagewayEnum"
510             minOccurs="1" maxOccurs="1" />
511         <xs:element name="lane" type="D2LogicalModel:LaneEnum" minOccurs="0"
512             maxOccurs="unbounded" />
513         <xs:element name="footpath" type="D2LogicalModel:Boolean" minOccurs="0"
514             maxOccurs="1" />
515         <xs:element name="lengthAffected" type="D2LogicalModel:MetresAsFloat"
516             minOccurs="0" maxOccurs="1" />
517         <xs:element name="affectedCarriagewayAndLanesExtension"
518             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
519     </xs:sequence>
520 </xs:complexType>
521 <xs:complexType name="AlertCArea">
522     <xs:sequence>
523         <xs:element name="alertCLocationCountryCode" type="D2LogicalModel:String"
524             minOccurs="1" maxOccurs="1" />
525         <xs:element name="alertCLocationTableNumber" type="D2LogicalModel:String"
526             minOccurs="1" maxOccurs="1" />
527         <xs:element name="alertCLocationTableVersion" type="D2LogicalModel:String"
528             minOccurs="1" maxOccurs="1" />
529         <xs:element name="areaLocation" type="D2LogicalModel:AlertCLocation" />
530         <xs:element name="alertCAreaExtension" type="D2LogicalModel:_ExtensionType"
531             minOccurs="0" />
532     </xs:sequence>
533 </xs:complexType>
534 <xs:complexType name="AlertCDirection">
535     <xs:sequence>
536         <xs:element name="alertCDirectionCoded"
537             type="D2LogicalModel:AlertCDirectionEnum" minOccurs="1" maxOccurs="1" />
538         <xs:element name="alertCDirectionNamed"
539             type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
540         <xs:element name="alertCDirectionSense" type="D2LogicalModel:Boolean"
541             minOccurs="0" maxOccurs="1" />
542         <xs:element name="alertCDirectionExtension"
543             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
544     </xs:sequence>
545 </xs:complexType>
546 <xs:simpleType name="AlertCDirectionEnum">

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532     <xs:restriction base="xs:string">
533         <xs:enumeration value="both" />
534         <xs:enumeration value="negative" />
535         <xs:enumeration value="positive" />
536         <xs:enumeration value="unknown" />
537     </xs:restriction>
538 </xs:simpleType>
539 <xs:complexType name="AlertCLinear" abstract="true">
540     <xs:sequence>
541         <xs:element name="alertCLocationCountryCode" type="D2LogicalModel:String"
542             minOccurs="1" maxOccurs="1" />
543         <xs:element name="alertCLocationTableNumber" type="D2LogicalModel:String"
544             minOccurs="1" maxOccurs="1" />
545         <xs:element name="alertCLocationTableVersion" type="D2LogicalModel:String"
546             minOccurs="1" maxOccurs="1" />
547         <xs:element name="alertCLinearExtension" type="D2LogicalModel:_ExtensionType"
548             minOccurs="0" />
549     </xs:sequence>
550 </xs:complexType>
551 <xs:complexType name="AlertCLinearByCode">
552     <xs:complexContent>
553         <xs:extension base="D2LogicalModel:AlertCLinear">
554             <xs:sequence>
555                 <xs:element name="alertCDirection" type="D2LogicalModel:AlertCDirection" />
556                 <xs:element name="locationCodeForLinearLocation"
557                     type="D2LogicalModel:AlertCLocation" />
558                 <xs:element name="alertCLinearByCodeExtension"
559                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
560             </xs:sequence>
561         </xs:extension>
562     </xs:complexContent>
563 </xs:complexType>
564 <xs:complexType name="AlertCLocation">
565     <xs:sequence>
566         <xs:element name="alertCLocationName" type="D2LogicalModel:MultilingualString"
567             minOccurs="0" maxOccurs="1" />
568         <xs:element name="specificLocation" type="D2LogicalModel:AlertCLocationCode"
569             minOccurs="1" maxOccurs="1" />
570         <xs:element name="alertCLocationExtension"
571             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
572     </xs:sequence>
573 </xs:complexType>
574 <xs:simpleType name="AlertCLocationCode">
575     <xs:restriction base="D2LogicalModel:NonNegativeInteger" />
576 </xs:simpleType>
577 <xs:complexType name="AlertCMethod2Linear">
578     <xs:complexContent>
579         <xs:extension base="D2LogicalModel:AlertCLinear">
580             <xs:sequence>
581                 <xs:element name="alertCDirection" type="D2LogicalModel:AlertCDirection" />
582                 <xs:element name="alertCMethod2PrimaryPointLocation"
583                     type="D2LogicalModel:AlertCMethod2PrimaryPointLocation" />
584                 <xs:element name="alertCMethod2SecondaryPointLocation"
585                     type="D2LogicalModel:AlertCMethod2SecondaryPointLocation" />
586                 <xs:element name="alertCMethod2LinearExtension"
587                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
588             </xs:sequence>
589         </xs:extension>
590     </xs:complexContent>
591 </xs:complexType>
592 <xs:complexType name="AlertCMethod2Point">
593     <xs:complexContent>
594         <xs:extension base="D2LogicalModel:AlertCPoint">
595             <xs:sequence>
596                 <xs:element name="alertCDirection" type="D2LogicalModel:AlertCDirection" />
597                 <xs:element name="alertCMethod2PrimaryPointLocation"
598                     type="D2LogicalModel:AlertCMethod2PrimaryPointLocation" />
599                 <xs:element name="alertCMethod2PointExtension"
600                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
601             </xs:sequence>
602         </xs:extension>
603     </xs:complexContent>

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590 </xs:complexType>
591 <xs:complexType name="AlertCMethod2PrimaryPointLocation">
592   <xs:sequence>
593     <xs:element name="alertCLocation" type="D2LogicalModel:AlertCLocation" />
594     <xs:element name="alertCMethod2PrimaryPointLocationExtension"
595       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
596   </xs:sequence>
597 </xs:complexType>
598 <xs:complexType name="AlertCMethod2SecondaryPointLocation">
599   <xs:sequence>
600     <xs:element name="alertCLocation" type="D2LogicalModel:AlertCLocation" />
601     <xs:element name="alertCMethod2SecondaryPointLocationExtension"
602       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
603   </xs:sequence>
604 </xs:complexType>
605 <xs:complexType name="AlertCMethod4Linear">
606   <xs:complexContent>
607     <xs:extension base="D2LogicalModel:AlertCLinear">
608       <xs:sequence>
609         <xs:element name="alertCDirection" type="D2LogicalModel:AlertCDirection" />
610         <xs:element name="alertCMethod4PrimaryPointLocation"
611           type="D2LogicalModel:AlertCMethod4PrimaryPointLocation" />
612         <xs:element name="alertCMethod4SecondaryPointLocation"
613           type="D2LogicalModel:AlertCMethod4SecondaryPointLocation" />
614         <xs:element name="alertCMethod4LinearExtension"
615           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
616       </xs:sequence>
617     </xs:extension>
618   </xs:complexContent>
619 </xs:complexType>
620 <xs:complexType name="AlertCMethod4Point">
621   <xs:complexContent>
622     <xs:extension base="D2LogicalModel:AlertCPoint">
623       <xs:sequence>
624         <xs:element name="alertCDirection" type="D2LogicalModel:AlertCDirection" />
625         <xs:element name="alertCMethod4PrimaryPointLocation"
626           type="D2LogicalModel:AlertCMethod4PrimaryPointLocation" />
627         <xs:element name="alertCMethod4PointExtension"
628           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
629       </xs:sequence>
630     </xs:extension>
631   </xs:complexContent>
632 </xs:complexType>
633 <xs:complexType name="AlertCMethod4PrimaryPointLocation">
634   <xs:sequence>
635     <xs:element name="alertCLocation" type="D2LogicalModel:AlertCLocation" />
636     <xs:element name="offsetDistance" type="D2LogicalModel:OffsetDistance" />
637     <xs:element name="alertCMethod4PrimaryPointLocationExtension"
638       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
639   </xs:sequence>
640 </xs:complexType>
641 <xs:complexType name="AlertCMethod4SecondaryPointLocation">
642   <xs:sequence>
643     <xs:element name="alertCLocation" type="D2LogicalModel:AlertCLocation" />
644     <xs:element name="offsetDistance" type="D2LogicalModel:OffsetDistance" />
645     <xs:element name="alertCMethod4SecondaryPointLocationExtension"
646       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
647   </xs:sequence>
648 </xs:complexType>
649 <xs:complexType name="AlertCPoint" abstract="true">
650   <xs:sequence>
651     <xs:element name="alertCLocationCountryCode" type="D2LogicalModel:String"
652       minOccurs="1" maxOccurs="1" />
653     <xs:element name="alertCLocationTableNumber" type="D2LogicalModel:String"
654       minOccurs="1" maxOccurs="1" />
655     <xs:element name="alertCLocationTableVersion" type="D2LogicalModel:String"
656       minOccurs="1" maxOccurs="1" />
657     <xs:element name="alertCPointExtension" type="D2LogicalModel:_ExtensionType"
658       minOccurs="0" />
659   </xs:sequence>
660 </xs:complexType>
661 <xs:simpleType name="AmountOfMoney">

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649     <xs:restriction base="D2LogicalModel:Decimal">
650         <xs:totalDigits value="8" />
651         <xs:fractionDigits value="2" />
652     </xs:restriction>
653 </xs:simpleType>
654 <xs:simpleType name="Ampere">
655     <xs:restriction base="D2LogicalModel:Float" />
656 </xs:simpleType>
657 <xs:simpleType name="AngleInDegrees">
658     <xs:restriction base="D2LogicalModel:NonNegativeInteger" />
659 </xs:simpleType>
660 <xs:complexType name="AnimalPresenceObstruction">
661     <xs:complexContent>
662         <xs:extension base="D2LogicalModel:Obstruction">
663             <xs:sequence>
664                 <xs:element name="alive" type="D2LogicalModel:Boolean" minOccurs="0"
665                     maxOccurs="1" />
666                 <xs:element name="animalPresenceType"
667                     type="D2LogicalModel:AnimalPresenceTypeEnum" minOccurs="1" maxOccurs="1" />
668                 <xs:element name="animalPresenceObstructionExtension"
669                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
670             </xs:sequence>
671         </xs:extension>
672     </xs:complexContent>
673 </xs:complexType>
674 <xs:simpleType name="AnimalPresenceTypeEnum">
675     <xs:restriction base="xs:string">
676         <xs:enumeration value="animalsOnTheRoad" />
677         <xs:enumeration value="herdOfAnimalsOnTheRoad" />
678         <xs:enumeration value="largeAnimalsOnTheRoad" />
679     </xs:restriction>
680 </xs:simpleType>
681 <xs:complexType name="ApplicationRateValue">
682     <xs:complexContent>
683         <xs:extension base="D2LogicalModel:DataValue">
684             <xs:sequence>
685                 <xs:element name="applicationRate"
686                     type="D2LogicalModel:IntensityKilogramsPerSquareMetre" minOccurs="1"
687                     maxOccurs="1" />
688                 <xs:element name="applicationRateValueExtension"
689                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
690             </xs:sequence>
691         </xs:extension>
692     </xs:complexContent>
693 </xs:complexType>
694 <xs:complexType name="Area">
695     <xs:complexContent>
696         <xs:extension base="D2LogicalModel:Location">
697             <xs:sequence>
698                 <xs:element name="alertCArea" type="D2LogicalModel:AlertCArea"
699                     minOccurs="0" />
700                 <xs:element name="tpegAreaLocation" type="D2LogicalModel:TpegAreaLocation"
701                     minOccurs="0" />
702                 <xs:element name="areaExtension" type="D2LogicalModel:_AreaExtensionType"
703                     minOccurs="0" />
704             </xs:sequence>
705         </xs:extension>
706     </xs:complexContent>
707 </xs:complexType>
708 <xs:complexType name="AreaDestination">
709     <xs:complexContent>
710         <xs:extension base="D2LogicalModel:Destination">
711             <xs:sequence>
712                 <xs:element name="area" type="D2LogicalModel:Area" />
713                 <xs:element name="areaDestinationExtension"
714                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
715             </xs:sequence>
716         </xs:extension>
717     </xs:complexContent>
718 </xs:complexType>
719 <xs:complexType name="AreaExtended">
720     <xs:sequence>

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711     <xs:element name="namedArea" type="D2LogicalModel:NamedArea" minOccurs="0" />
712     <xs:element name="polygonArea" type="D2LogicalModel:PolygonArea" minOccurs="0"
maxOccurs="unbounded" />
713   </xs:sequence>
714 </xs:complexType>
715 <xs:simpleType name="AreaOfInterestEnum">
716   <xs:restriction base="xs:string">
717     <xs:enumeration value="continentWide" />
718     <xs:enumeration value="national" />
719     <xs:enumeration value="neighbouringCountries" />
720     <xs:enumeration value="notSpecified" />
721     <xs:enumeration value="regional" />
722   </xs:restriction>
723 </xs:simpleType>
724 <xs:complexType name="AuthorityOperation">
725   <xs:complexContent>
726     <xs:extension base="D2LogicalModel:Activity">
727       <xs:sequence>
728         <xs:element name="authorityOperationType"
type="D2LogicalModel:AuthorityOperationTypeEnum" minOccurs="1"
maxOccurs="1" />
729         <xs:element name="authorityOperationExtension"
type="D2LogicalModel:_ExtensionType" minOccurs="0" />
730       </xs:sequence>
731     </xs:extension>
732   </xs:complexContent>
733 </xs:complexType>
734 <xs:simpleType name="AuthorityOperationTypeEnum">
735   <xs:restriction base="xs:string">
736     <xs:enumeration value="accidentInvestigationWork" />
737     <xs:enumeration value="bombSquadInAction" />
738     <xs:enumeration value="civilEmergency" />
739     <xs:enumeration value="customsOperation" />
740     <xs:enumeration value="juridicalReconstruction" />
741     <xs:enumeration value="policeCheckPoint" />
742     <xs:enumeration value="policeInvestigation" />
743     <xs:enumeration value="roadOperatorCheckPoint" />
744     <xs:enumeration value="survey" />
745     <xs:enumeration value="transportOfVip" />
746     <xs:enumeration value="undefinedAuthorityActivity" />
747     <xs:enumeration value="vehicleInspectionCheckPoint" />
748     <xs:enumeration value="vehicleWeighing" />
749     <xs:enumeration value="weighInMotion" />
750     <xs:enumeration value="other" />
751   </xs:restriction>
752 </xs:simpleType>
753 <xs:simpleType name="AvailabilityEnum">
754   <xs:restriction base="xs:string">
755     <xs:enumeration value="available" />
756     <xs:enumeration value="notAvailable" />
757     <xs:enumeration value="unknown" />
758   </xs:restriction>
759 </xs:simpleType>
760 <xs:complexType name="AxleFlowValue">
761   <xs:complexContent>
762     <xs:extension base="D2LogicalModel:DataValue">
763       <xs:sequence>
764         <xs:element name="axleFlowRate" type="D2LogicalModel:AxlesPerHour"
minOccurs="1" maxOccurs="1" />
765         <xs:element name="axleFlowValueExtension"
type="D2LogicalModel:_ExtensionType" minOccurs="0" />
766       </xs:sequence>
767     </xs:extension>
768   </xs:complexContent>
769 </xs:complexType>
770 <xs:complexType name="AxleSpacing">
771   <xs:sequence>
772     <xs:element name="axleSpacing" type="D2LogicalModel:MetresAsFloat"
minOccurs="1" maxOccurs="1" />
773     <xs:element name="axleSpacingSequenceIdentifier"
type="D2LogicalModel:NonNegativeInteger" minOccurs="1" maxOccurs="1" />
774     <xs:element name="axleSpacingExtension" type="D2LogicalModel:_ExtensionType"

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775         minOccurs="0" />
776     </xs:sequence>
777 </xs:complexType>
778 <xs:simpleType name="AxlesPerHour">
779     <xs:restriction base="D2LogicalModel:NonNegativeInteger" />
780 </xs:simpleType>
781 <xs:complexType name="AxleWeight">
782     <xs:sequence>
783         <xs:element name="axlePositionIdentifier"
784             type="D2LogicalModel:NonNegativeInteger" minOccurs="1" maxOccurs="1" />
785         <xs:element name="axleWeight" type="D2LogicalModel:Tonnes" minOccurs="0"
786             maxOccurs="1" />
787         <xs:element name="maximumPermittedAxleWeight" type="D2LogicalModel:Tonnes"
788             minOccurs="0" maxOccurs="1" />
789         <xs:element name="axleWeightExtension" type="D2LogicalModel:_ExtensionType"
790             minOccurs="0" />
791     </xs:sequence>
792 </xs:complexType>
793 <xs:complexType name="BasicData" abstract="true">
794     <xs:sequence>
795         <xs:element name="measurementOrCalculationPeriod"
796             type="D2LogicalModel:Seconds" minOccurs="0" maxOccurs="1" />
797         <xs:element name="measurementOrCalculationTime" type="D2LogicalModel:DateTime"
798             minOccurs="0" maxOccurs="1" />
799         <xs:element name="pertinentLocation" type="D2LogicalModel:GroupOfLocations"
800             minOccurs="0" />
801         <xs:element name="basicDataExtension" type="D2LogicalModel:_ExtensionType"
802             minOccurs="0" />
803     </xs:sequence>
804     <xs:attribute name="measurementOrCalculatedTimePrecision"
805         type="D2LogicalModel:TimePrecisionEnum" use="optional" />
806 </xs:complexType>
807 <xs:simpleType name="Boolean">
808     <xs:restriction base="xs:boolean" />
809 </xs:simpleType>
810 <xs:simpleType name="CarParkConfigurationEnum">
811     <xs:restriction base="xs:string">
812         <xs:enumeration value="multiStorey" />
813         <xs:enumeration value="parkAndRide" />
814         <xs:enumeration value="singleLevel" />
815         <xs:enumeration value="underground" />
816     </xs:restriction>
817 </xs:simpleType>
818 <xs:complexType name="CarParks">
819     <xs:complexContent>
820         <xs:extension base="D2LogicalModel:NonRoadEventInformation">
821             <xs:sequence>
822                 <xs:element name="carParkConfiguration"
823                     type="D2LogicalModel:CarParkConfigurationEnum" minOccurs="0" maxOccurs="1"
824                     />
825                 <xs:element name="carParkIdentity" type="D2LogicalModel:String"
826                     minOccurs="1" maxOccurs="1" />
827                 <xs:element name="carParkOccupancy" type="D2LogicalModel:Percentage"
828                     minOccurs="0" maxOccurs="1" />
829                 <xs:element name="carParkStatus" type="D2LogicalModel:CarParkStatusEnum"
830                     minOccurs="0" maxOccurs="1" />
831                 <xs:element name="exitRate" type="D2LogicalModel:VehiclesPerHour"
832                     minOccurs="0" maxOccurs="1" />
833                 <xs:element name="fillRate" type="D2LogicalModel:VehiclesPerHour"
834                     minOccurs="0" maxOccurs="1" />
835                 <xs:element name="numberOfVacantParkingSpaces"
836                     type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
837                 <xs:element name="occupiedSpaces" type="D2LogicalModel:NonNegativeInteger"
838                     minOccurs="0" maxOccurs="1" />
839                 <xs:element name="queuingTime" type="D2LogicalModel:Seconds" minOccurs="0"
840                     maxOccurs="1" />
841                 <xs:element name="totalCapacity" type="D2LogicalModel:NonNegativeInteger"
842                     minOccurs="0" maxOccurs="1" />
843                 <xs:element name="carParksExtension" type="D2LogicalModel:_ExtensionType"
844                     minOccurs="0" />
845             </xs:sequence>
846         </xs:extension>

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825     </xs:complexContent>
826 </xs:complexType>
827 <xs:simpleType name="CarParkStatusEnum">
828     <xs:restriction base="xs:string">
829         <xs:enumeration value="carParkClosed" />
830         <xs:enumeration value="allCarParksFull" />
831         <xs:enumeration value="carParkFacilityFaulty" />
832         <xs:enumeration value="carParkFull" />
833         <xs:enumeration value="carParkStatusUnknown" />
834         <xs:enumeration value="enoughSpacesAvailable" />
835         <xs:enumeration value="multiStoryCarParksFull" />
836         <xs:enumeration value="noMoreParkingSpacesAvailable" />
837         <xs:enumeration value="noParkAndRideInformation" />
838         <xs:enumeration value="noParkingAllowed" />
839         <xs:enumeration value="noParkingInformationAvailable" />
840         <xs:enumeration value="normalParkingRestrictionsLifted" />
841         <xs:enumeration value="onlyAFewSpacesAvailable" />
842         <xs:enumeration value="parkAndRideServiceNotOperating" />
843         <xs:enumeration value="parkAndRideServiceOperating" />
844         <xs:enumeration value="specialParkingRestrictionsInForce" />
845     </xs:restriction>
846 </xs:simpleType>
847 <xs:simpleType name="CarriagewayEnum">
848     <xs:restriction base="xs:string">
849         <xs:enumeration value="connectingCarriageway" />
850         <xs:enumeration value="entrySlipRoad" />
851         <xs:enumeration value="exitSlipRoad" />
852         <xs:enumeration value="flyover" />
853         <xs:enumeration value="leftHandFeederRoad" />
854         <xs:enumeration value="leftHandParallelCarriageway" />
855         <xs:enumeration value="mainCarriageway" />
856         <xs:enumeration value="oppositeCarriageway" />
857         <xs:enumeration value="parallelCarriageway" />
858         <xs:enumeration value="rightHandFeederRoad" />
859         <xs:enumeration value="rightHandParallelCarriageway" />
860         <xs:enumeration value="roundabout" />
861         <xs:enumeration value="serviceRoad" />
862         <xs:enumeration value="slipRoads" />
863         <xs:enumeration value="underpass" />
864     </xs:restriction>
865 </xs:simpleType>
866 <xs:complexType name="CatalogueReference">
867     <xs:sequence>
868         <xs:element name="keyCatalogueReference" type="D2LogicalModel:String"
869             minOccurs="1" maxOccurs="1" />
870         <xs:element name="catalogueReferenceExtension"
871             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
872     </xs:sequence>
873 </xs:complexType>
874 <xs:complexType name="Cause" abstract="true">
875     <xs:sequence>
876         <xs:element name="causeExtension" type="D2LogicalModel:_ExtensionType"
877             minOccurs="0" />
878     </xs:sequence>
879 </xs:complexType>
880 <xs:simpleType name="CauseTypeEnum">
881     <xs:restriction base="xs:string">
882         <xs:enumeration value="accident" />
883         <xs:enumeration value="congestion" />
884         <xs:enumeration value="earlierAccident" />
885         <xs:enumeration value="earlierEvent" />
886         <xs:enumeration value="earlierIncident" />
887         <xs:enumeration value="equipmentFailure" />
888         <xs:enumeration value="excessiveHeat" />
889         <xs:enumeration value="frost" />
890         <xs:enumeration value="holidayTraffic" />
891         <xs:enumeration value="infrastructureFailure" />
892         <xs:enumeration value="largeNumbersOfVisitors" />
893         <xs:enumeration value="obstruction" />
894         <xs:enumeration value="pollutionAlert" />
895         <xs:enumeration value="poorWeather" />
896         <xs:enumeration value="problemsAtBorderPost" />

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894     <xs:enumeration value="problemsAtCustomPost" />
895     <xs:enumeration value="problemsOnLocalRoads" />
896     <xs:enumeration value="radioactiveLeakAlert" />
897     <xs:enumeration value="roadsideEvent" />
898     <xs:enumeration value="rubberNecking" />
899     <xs:enumeration value="securityIncident" />
900     <xs:enumeration value="shearWeightOfTraffic" />
901     <xs:enumeration value="technicalProblems" />
902     <xs:enumeration value="terrorism" />
903     <xs:enumeration value="toxicCloudAlert" />
904     <xs:enumeration value="vandalism" />
905     <xs:enumeration value="other" />
906   </xs:restriction>
907 </xs:simpleType>
908 <xs:simpleType name="ChangedFlagEnum">
909   <xs:restriction base="xs:string">
910     <xs:enumeration value="catalogue" />
911     <xs:enumeration value="filter" />
912   </xs:restriction>
913 </xs:simpleType>
914 <xs:complexType name="Charge">
915   <xs:sequence>
916     <xs:element name="charge" type="D2LogicalModel:AmountOfMoney" minOccurs="1"
917       maxOccurs="1" />
918     <xs:element name="chargeInterval" type="D2LogicalModel:Seconds" minOccurs="0"
919       maxOccurs="1" />
920     <xs:element name="chargeType" type="D2LogicalModel:ChargeTypeEnum"
921       minOccurs="0" maxOccurs="1" />
922     <xs:element name="chargeTypeDescription"
923       type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
924     <xs:element name="maxIterationsOfCharge"
925       type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
926     <xs:element name="minIterationsOfCharge"
927       type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
928     <xs:element name="chargeOrderIndex" type="D2LogicalModel:NonNegativeInteger"
929       minOccurs="0" maxOccurs="1" />
930     <xs:element name="timePeriodOfDay" type="D2LogicalModel:TimePeriodOfDay"
931       minOccurs="0" />
932     <xs:element name="chargeExtension" type="D2LogicalModel:_ExtensionType"
933       minOccurs="0" />
934   </xs:sequence>
935 </xs:complexType>
936 <xs:complexType name="ChargeBand">
937   <xs:sequence>
938     <xs:element name="chargeCurrency" type="D2LogicalModel:CurrencyEnum"
939       minOccurs="1" maxOccurs="1" />
940     <xs:element name="maximumDuration" type="D2LogicalModel:Seconds" minOccurs="0"
941       maxOccurs="1" />
942     <xs:element name="chargeBandName" type="D2LogicalModel:MultilingualString"
943       minOccurs="0" maxOccurs="1" />
944     <xs:element name="applicableForUser" type="D2LogicalModel:UserTypeEnum"
945       minOccurs="0" maxOccurs="unbounded" />
946     <xs:element name="charge" type="D2LogicalModel:Charge" maxOccurs="unbounded" />
947     <xs:element name="applicableForPeriod" type="D2LogicalModel:OverallPeriod"
948       minOccurs="0" />
949     <xs:element name="applicableForVehicles"
950       type="D2LogicalModel:VehicleCharacteristics" minOccurs="0"
951       maxOccurs="unbounded" />
952     <xs:element name="parkingPermit" type="D2LogicalModel:ParkingPermit"
953       minOccurs="0" maxOccurs="unbounded" />
954     <xs:element name="chargeBandExtension" type="D2LogicalModel:_ExtensionType"
955       minOccurs="0" />
956   </xs:sequence>
957   <xs:attribute name="id" type="xs:string" use="required" />
958   <xs:attribute name="version" type="xs:string" use="required" />
959 </xs:complexType>
960 <xs:complexType name="ChargeBandByReference">
961   <xs:sequence>
962     <xs:element name="chargeBandReference"
963       type="D2LogicalModel:_ChargeBandVersionedReference" minOccurs="1"
964       maxOccurs="1" />
965     <xs:element name="chargeBandByReferenceExtension"

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    type="D2LogicalModel:_ExtensionType" minOccurs="0" />
946 </xs:sequence>
947 </xs:complexType>
948 <xs:simpleType name="ChargeTypeEnum">
949   <xs:restriction base="xs:string">
950     <xs:enumeration value="minimum" />
951     <xs:enumeration value="maximum" />
952     <xs:enumeration value="additionalIntervalPrice" />
953     <xs:enumeration value="seasonTicket" />
954     <xs:enumeration value="temporaryPrice" />
955     <xs:enumeration value="firstIntervalPrice" />
956     <xs:enumeration value="freeParking" />
957     <xs:enumeration value="flat" />
958     <xs:enumeration value="unknown" />
959     <xs:enumeration value="other" />
960   </xs:restriction>
961 </xs:simpleType>
962 <xs:simpleType name="ChargingStationUsageTypeEnum">
963   <xs:restriction base="xs:string">
964     <xs:enumeration value="electricVehicle" />
965     <xs:enumeration value="motorhomeOrCaravanSupply" />
966     <xs:enumeration value="electricBikeOrMotorcycle" />
967     <xs:enumeration value="lorryPowerConsumption" />
968     <xs:enumeration value="electricalDevices" />
969     <xs:enumeration value="other" />
970   </xs:restriction>
971 </xs:simpleType>
972 <xs:simpleType name="CodedReasonForSettingMessageEnum">
973   <xs:restriction base="xs:string">
974     <xs:enumeration value="situation" />
975     <xs:enumeration value="operatorCreated" />
976     <xs:enumeration value="trafficManagement" />
977     <xs:enumeration value="travelTime" />
978     <xs:enumeration value="campaign" />
979     <xs:enumeration value="default" />
980   </xs:restriction>
981 </xs:simpleType>
982 <xs:simpleType name="ColourEnum">
983   <xs:restriction base="xs:string">
984     <xs:enumeration value="amber" />
985     <xs:enumeration value="blue" />
986     <xs:enumeration value="green" />
987     <xs:enumeration value="red" />
988     <xs:enumeration value="white" />
989     <xs:enumeration value="whiteYellow" />
990   </xs:restriction>
991 </xs:simpleType>
992 <xs:complexType name="Comment">
993   <xs:sequence>
994     <xs:element name="comment" type="D2LogicalModel:MultilingualString"
995       minOccurs="1" maxOccurs="1" />
996     <xs:element name="commentDateTime" type="D2LogicalModel:DateTime"
997       minOccurs="0" maxOccurs="1" />
998     <xs:element name="commentType" type="D2LogicalModel:CommentTypeEnum"
999       minOccurs="0" maxOccurs="1" />
1000     <xs:element name="commentExtension" type="D2LogicalModel:_ExtensionType"
1001       minOccurs="0" />
1002   </xs:sequence>
1003 </xs:complexType>
1004 <xs:simpleType name="CommentTypeEnum">
1005   <xs:restriction base="xs:string">
1006     <xs:enumeration value="abnormalLoadMovementNote" />
1007     <xs:enumeration value="dataProcessingNote" />
1008     <xs:enumeration value="description" />
1009     <xs:enumeration value="internalNote" />
1010     <xs:enumeration value="locationDescriptor" />
1011     <xs:enumeration value="warning" />
1012     <xs:enumeration value="other" />
1013   </xs:restriction>
1014 </xs:simpleType>
1015 <xs:simpleType name="ComparisonOperatorEnum">
1016   <xs:restriction base="xs:string">

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1013     <xs:enumeration value="equalTo" />
1014     <xs:enumeration value="greaterThan" />
1015     <xs:enumeration value="greaterThanOrEqualTo" />
1016     <xs:enumeration value="lessThan" />
1017     <xs:enumeration value="lessThanOrEqualTo" />
1018 </xs:restriction>
1019 </xs:simpleType>
1020 <xs:simpleType name="ComplianceOptionEnum">
1021     <xs:restriction base="xs:string">
1022         <xs:enumeration value="advisory" />
1023         <xs:enumeration value="mandatory" />
1024     </xs:restriction>
1025 </xs:simpleType>
1026 <xs:simpleType name="ComputationMethodEnum">
1027     <xs:restriction base="xs:string">
1028         <xs:enumeration value="arithmeticAverageOfSamplesBasedOnAFixedNumberOfSamples"
1029             />
1029         <xs:enumeration value="arithmeticAverageOfSamplesInATimePeriod" />
1030         <xs:enumeration value="harmonicAverageOfSamplesInATimePeriod" />
1031         <xs:enumeration value="medianOfSamplesInATimePeriod" />
1032         <xs:enumeration value="movingAverageOfSamples" />
1033     </xs:restriction>
1034 </xs:simpleType>
1035 <xs:simpleType name="ConcentrationKilogramsPerCubicMetre">
1036     <xs:restriction base="D2LogicalModel:Float" />
1037 </xs:simpleType>
1038 <xs:simpleType name="ConcentrationMicrogramsPerCubicMetre">
1039     <xs:restriction base="D2LogicalModel:Float" />
1040 </xs:simpleType>
1041 <xs:complexType name="ConcentrationOfVehiclesValue">
1042     <xs:complexContent>
1043         <xs:extension base="D2LogicalModel:DataValue">
1044             <xs:sequence>
1045                 <xs:element name="concentrationOfVehicles"
1046                     type="D2LogicalModel:ConcentrationVehiclesPerKilometre" minOccurs="1"
1047                     maxOccurs="1" />
1048                 <xs:element name="concentrationOfVehiclesValueExtension"
1049                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1050             </xs:sequence>
1051         </xs:extension>
1052     </xs:complexContent>
1053 </xs:complexType>
1054 <xs:simpleType name="ConcentrationVehiclesPerKilometre">
1055     <xs:restriction base="D2LogicalModel:NonNegativeInteger" />
1056 </xs:simpleType>
1057 <xs:complexType name="Conditions">
1058     <xs:complexContent>
1059         <xs:extension base="D2LogicalModel:TrafficElement">
1060             <xs:sequence>
1061                 <xs:element name="drivingConditionType"
1062                     type="D2LogicalModel:DrivingConditionTypeEnum" minOccurs="0" maxOccurs="1"
1063                     />
1064                 <xs:element name="conditionsExtension"
1065                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1066             </xs:sequence>
1067         </xs:extension>
1068     </xs:complexContent>
1069 </xs:complexType>
1070 <xs:simpleType name="ConfidentialityValueEnum">
1071     <xs:restriction base="xs:string">
1072         <xs:enumeration value="internalUse" />
1073         <xs:enumeration value="noRestriction" />
1074         <xs:enumeration value="restrictedToAuthorities" />
1075         <xs:enumeration value="restrictedToAuthoritiesAndTrafficOperators" />
1076         <xs:enumeration value="restrictedToAuthoritiesTrafficOperatorsAndPublishers" />
1077         <xs:enumeration value="restrictedToAuthoritiesTrafficOperatorsAndVms" />
1078     </xs:restriction>
1079 </xs:simpleType>
1080 <xs:complexType name="ConstructionWorks">
1081     <xs:complexContent>
1082         <xs:extension base="D2LogicalModel:Roadworks">
1083             <xs:sequence>

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1078         <xs:element name="constructionWorkType"
1079             type="D2LogicalModel:ConstructionWorkTypeEnum" minOccurs="0" maxOccurs="1"
1080             />
1081         <xs:element name="constructionWorksExtension"
1082             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1083     </xs:sequence>
1084 </xs:extension>
1085 </xs:complexContent>
1086 </xs:complexType>
1087 <xs:simpleType name="ConstructionWorkTypeEnum">
1088     <xs:restriction base="xs:string">
1089         <xs:enumeration value="blastingWork" />
1090         <xs:enumeration value="constructionWork" />
1091         <xs:enumeration value="demolitionWork" />
1092         <xs:enumeration value="roadImprovementOrUpgrading" />
1093         <xs:enumeration value="roadWideningWork" />
1094     </xs:restriction>
1095 </xs:simpleType>
1096 <xs:complexType name="Contact">
1097     <xs:sequence>
1098         <xs:element name="contactUnknown" type="D2LogicalModel:Boolean" minOccurs="0"
1099             maxOccurs="1" />
1100         <xs:element name="contactNotDefined" type="D2LogicalModel:Boolean"
1101             minOccurs="0" maxOccurs="1" />
1102         <xs:element name="validityOfContact" type="D2LogicalModel:OverallPeriod"
1103             minOccurs="0" />
1104         <xs:element name="contactExtension" type="D2LogicalModel:_ExtensionType"
1105             minOccurs="0" />
1106     </xs:sequence>
1107 </xs:complexType>
1108 <xs:complexType name="ContactByReference">
1109     <xs:complexContent>
1110         <xs:extension base="D2LogicalModel:Contact">
1111             <xs:sequence>
1112                 <xs:element name="contactReference"
1113                     type="D2LogicalModel:_ContactDetailsVersionedReference" minOccurs="1"
1114                     maxOccurs="1" />
1115                 <xs:element name="contactByReferenceExtension"
1116                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1117             </xs:sequence>
1118         </xs:extension>
1119     </xs:complexContent>
1120 </xs:complexType>
1121 <xs:complexType name="ContactDetails">
1122     <xs:complexContent>
1123         <xs:extension base="D2LogicalModel:Contact">
1124             <xs:sequence>
1125                 <xs:element name="contactOrganisationName"
1126                     type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
1127                 <xs:element name="contactPersonName" type="D2LogicalModel:String"
1128                     minOccurs="0" maxOccurs="1" />
1129                 <xs:element name="contactPersonFirstName" type="D2LogicalModel:String"
1130                     minOccurs="0" maxOccurs="1" />
1131                 <xs:element name="contactPersonPosition"
1132                     type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
1133                 <xs:element name="contactDetailsLanguage" type="D2LogicalModel:Language"
1134                     minOccurs="0" maxOccurs="unbounded" />
1135                 <xs:element name="contactDetailsAddress"
1136                     type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
1137                 <xs:element name="contactDetailsStreet" type="D2LogicalModel:String"
1138                     minOccurs="0" maxOccurs="1" />
1139                 <xs:element name="contactDetailsHouseNumber" type="D2LogicalModel:String"
1140                     minOccurs="0" maxOccurs="2" />
1141                 <xs:element name="contactDetailsPostcode" type="D2LogicalModel:String"
1142                     minOccurs="0" maxOccurs="1" />
1143                 <xs:element name="contactDetailsCity"
1144                     type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
1145                 <xs:element name="country" type="D2LogicalModel:CountryEnum" minOccurs="0"
1146                     maxOccurs="1" />
1147                 <xs:element name="contactDetailsTelephoneNumber"
1148                     type="D2LogicalModel:String" minOccurs="0" maxOccurs="1" />
1149                 <xs:element name="contactDetailsFax" type="D2LogicalModel:String"

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1128         minOccurs="0" maxOccurs="1" />
1129         <xs:element name="contactDetailsEMail" type="D2LogicalModel:String"
1130         minOccurs="0" maxOccurs="1" />
1131         <xs:element name="urlLinkAddress" type="D2LogicalModel:Url" minOccurs="0"
1132         maxOccurs="1" />
1133         <xs:element name="contactDetailsLogoUrl" type="D2LogicalModel:Url"
1134         minOccurs="0" maxOccurs="1" />
1135         <xs:element name="available24hours" type="D2LogicalModel:Boolean"
1136         minOccurs="0" maxOccurs="1" />
1137         <xs:element name="contactDetailsResponsibility"
1138         type="D2LogicalModel:MultilingualString" minOccurs="0"
1139         maxOccurs="unbounded" />
1140         <xs:element name="contactDetailsMoreInfo"
1141         type="D2LogicalModel:MultilingualString" minOccurs="0"
1142         maxOccurs="unbounded" />
1143         <xs:element name="publishingAgreement" type="D2LogicalModel:Boolean"
1144         minOccurs="0" maxOccurs="1" />
1145         <xs:element name="contactDetailsOwnership"
1146         type="D2LogicalModel:OwnershipTypeEnum" minOccurs="0" maxOccurs="1" />
1147         <xs:element name="groupOfLocations" type="D2LogicalModel:GroupOfLocations"
1148         minOccurs="0" />
1149         <xs:element name="contactDetailsExtension"
1150         type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1151     </xs:sequence>
1152     <xs:attribute name="id" type="xs:string" use="required" />
1153     <xs:attribute name="version" type="xs:string" use="required" />
1154 </xs:extension>
1155 </xs:complexContent>
1156 </xs:complexType>
1157 <xs:simpleType name="CountryEnum">
1158     <xs:restriction base="xs:string">
1159         <xs:enumeration value="at" />
1160         <xs:enumeration value="be" />
1161         <xs:enumeration value="bg" />
1162         <xs:enumeration value="ch" />
1163         <xs:enumeration value="cs" />
1164         <xs:enumeration value="cy" />
1165         <xs:enumeration value="cz" />
1166         <xs:enumeration value="de" />
1167         <xs:enumeration value="dk" />
1168         <xs:enumeration value="ee" />
1169         <xs:enumeration value="es" />
1170         <xs:enumeration value="fi" />
1171         <xs:enumeration value="fo" />
1172         <xs:enumeration value="fr" />
1173         <xs:enumeration value="gb" />
1174         <xs:enumeration value="gg" />
1175         <xs:enumeration value="gi" />
1176         <xs:enumeration value="gr" />
1177         <xs:enumeration value="hr" />
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1179         <xs:enumeration value="ie" />
1180         <xs:enumeration value="im" />
1181         <xs:enumeration value="is" />
1182         <xs:enumeration value="it" />
1183         <xs:enumeration value="je" />
1184         <xs:enumeration value="li" />
1185         <xs:enumeration value="lt" />
1186         <xs:enumeration value="lu" />
1187         <xs:enumeration value="lv" />
1188         <xs:enumeration value="ma" />
1189         <xs:enumeration value="mc" />
1190         <xs:enumeration value="mk" />
1191         <xs:enumeration value="mt" />
1192         <xs:enumeration value="nl" />
1193         <xs:enumeration value="no" />
1194         <xs:enumeration value="pl" />
1195         <xs:enumeration value="pt" />
1196         <xs:enumeration value="ro" />
1197         <xs:enumeration value="se" />
1198         <xs:enumeration value="si" />
1199         <xs:enumeration value="sk" />
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1187     <xs:enumeration value="sm" />
1188     <xs:enumeration value="tr" />
1189     <xs:enumeration value="va" />
1190     <xs:enumeration value="other" />
1191   </xs:restriction>
1192 </xs:simpleType>
1193 <xs:simpleType name="CubicMetres">
1194   <xs:restriction base="D2LogicalModel:Float" />
1195 </xs:simpleType>
1196 <xs:simpleType name="CurrencyEnum">
1197   <xs:restriction base="xs:string">
1198     <xs:enumeration value="eur" />
1199     <xs:enumeration value="all" />
1200     <xs:enumeration value="amd" />
1201     <xs:enumeration value="azn" />
1202     <xs:enumeration value="bam" />
1203     <xs:enumeration value="bgn" />
1204     <xs:enumeration value="byr" />
1205     <xs:enumeration value="chf" />
1206     <xs:enumeration value="czk" />
1207     <xs:enumeration value="dkk" />
1208     <xs:enumeration value="gbp" />
1209     <xs:enumeration value="gel" />
1210     <xs:enumeration value="hrk" />
1211     <xs:enumeration value="huf" />
1212     <xs:enumeration value="isk" />
1213     <xs:enumeration value="ltl" />
1214     <xs:enumeration value="mdl" />
1215     <xs:enumeration value="mkd" />
1216     <xs:enumeration value="nok" />
1217     <xs:enumeration value="pln" />
1218     <xs:enumeration value="ron" />
1219     <xs:enumeration value="rsd" />
1220     <xs:enumeration value="rub" />
1221     <xs:enumeration value="sek" />
1222     <xs:enumeration value="try" />
1223     <xs:enumeration value="uah" />
1224     <xs:enumeration value="usd" />
1225     <xs:enumeration value="other" />
1226   </xs:restriction>
1227 </xs:simpleType>
1228 <xs:element name="d2LogicalModel" type="D2LogicalModel:D2LogicalModel">
1229   <xs:unique name="_d2LogicalModelParkingVehicleConstraint">
1230     <xs:selector xpath="."/>
1231     <xs:field xpath="@id" />
1232     <xs:field xpath="@version" />
1233   </xs:unique>
1234   <xs:unique name="_d2LogicalModelSituationRecordConstraint">
1235     <xs:selector xpath="."/>
1236     <xs:field xpath="@id" />
1237     <xs:field xpath="@version" />
1238   </xs:unique>
1239   <xs:unique name="_d2LogicalModelLinearTrafficViewConstraint">
1240     <xs:selector xpath="."/>
1241     <xs:field xpath="@id" />
1242   </xs:unique>
1243   <xs:unique name="_d2LogicalModelParkingRouteDetailsConstraint">
1244     <xs:selector xpath="."/>
1245     <xs:field xpath="@id" />
1246     <xs:field xpath="@version" />
1247   </xs:unique>
1248   <xs:unique name="_d2LogicalModelParkingTableConstraint">
1249     <xs:selector xpath="."/>
1250     <xs:field xpath="@id" />
1251     <xs:field xpath="@version" />
1252   </xs:unique>
1253   <xs:unique name="_d2LogicalModelTrafficViewRecordConstraint">
1254     <xs:selector xpath="."/>
1255     <xs:field xpath="@id" />
1256   </xs:unique>
1257   <xs:unique name="_d2LogicalModelSituationConstraint">
1258     <xs:selector xpath="."/>

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1259     <xs:field xpath="@id" />
1260     <xs:field xpath="@version" />
1261 </xs:unique>
1262 <xs:unique name="_d2LogicalModelContactDetailsConstraint">
1263     <xs:selector xpath="//D2LogicalModel:contactDetails" />
1264     <xs:field xpath="@id" />
1265     <xs:field xpath="@version" />
1266 </xs:unique>
1267 <xs:unique name="_d2LogicalModelMeasurementSiteRecordConstraint">
1268     <xs:selector xpath="//D2LogicalModel:measurementSiteRecord" />
1269     <xs:field xpath="@id" />
1270     <xs:field xpath="@version" />
1271 </xs:unique>
1272 <xs:unique name="_d2LogicalModelParkingAccessConstraint">
1273     <xs:selector xpath="//D2LogicalModel:parkingAccess" />
1274     <xs:field xpath="@id" />
1275 </xs:unique>
1276 <xs:unique name="_d2LogicalModelPredefinedNonOrderedLocationGroupConstraint">
1277     <xs:selector xpath="//D2LogicalModel:predefinedNonOrderedLocationGroup" />
1278     <xs:field xpath="@id" />
1279     <xs:field xpath="@version" />
1280 </xs:unique>
1281 <xs:unique name="_d2LogicalModelPredefinedLocationConstraint">
1282     <xs:selector xpath="//D2LogicalModel:predefinedLocation" />
1283     <xs:field xpath="@id" />
1284     <xs:field xpath="@version" />
1285 </xs:unique>
1286 <xs:unique name="_d2LogicalModelParkingRecordConstraint">
1287     <xs:selector xpath="//D2LogicalModel:parkingRecord" />
1288     <xs:field xpath="@id" />
1289     <xs:field xpath="@version" />
1290 </xs:unique>
1291 <xs:unique name="_d2LogicalModelMeasurementSiteTableConstraint">
1292     <xs:selector xpath="//D2LogicalModel:measurementSiteTable" />
1293     <xs:field xpath="@id" />
1294     <xs:field xpath="@version" />
1295 </xs:unique>
1296 <xs:unique name="_d2LogicalModelTrafficViewConstraint">
1297     <xs:selector xpath="//D2LogicalModel:trafficView" />
1298     <xs:field xpath="@id" />
1299 </xs:unique>
1300 <xs:unique name="_d2LogicalModelPredefinedItineraryConstraint">
1301     <xs:selector xpath="//D2LogicalModel:predefinedItinerary" />
1302     <xs:field xpath="@id" />
1303     <xs:field xpath="@version" />
1304 </xs:unique>
1305 <xs:unique name="_d2LogicalModelVmsUnitTableConstraint">
1306     <xs:selector xpath="//D2LogicalModel:vmsUnitTable" />
1307     <xs:field xpath="@id" />
1308     <xs:field xpath="@version" />
1309 </xs:unique>
1310 <xs:unique name="_d2LogicalModelChargeBandConstraint">
1311     <xs:selector xpath="//D2LogicalModel:chargeBand" />
1312     <xs:field xpath="@id" />
1313     <xs:field xpath="@version" />
1314 </xs:unique>
1315 <xs:unique name="_d2LogicalModelVmsUnitRecordConstraint">
1316     <xs:selector xpath="//D2LogicalModel:vmsUnitRecord" />
1317     <xs:field xpath="@id" />
1318     <xs:field xpath="@version" />
1319 </xs:unique>
1320 </xs:element> <!-- ALAB : Mantis 119 - Validation pour un modèle D2LogicalModel -->
1321 <xs:element name="D2LogicalModel"
1322     substitutionGroup="D2LogicalModel:d2LogicalModel"/>
1323 <xs:complexType name="D2LogicalModel">
1324     <xs:sequence>
1325         <xs:element name="exchange" type="D2LogicalModel:Exchange" />
1326         <xs:element name="payloadPublication" type="D2LogicalModel:PayloadPublication"
1327             minOccurs="0" />
1328         <xs:element name="d2LogicalModelExtension"
1329             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1330     </xs:sequence>

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1328     <xs:attribute name="modelBaseVersion" use="required" fixed="2" />
1329 </xs:complexType>
1330 <xs:simpleType name="DangerousGoodsRegulationsEnum">
1331     <xs:restriction base="xs:string">
1332         <xs:enumeration value="adr" />
1333         <xs:enumeration value="iataIcao" />
1334         <xs:enumeration value="imoImdg" />
1335         <xs:enumeration value="railroadDangerousGoodsBook" />
1336     </xs:restriction>
1337 </xs:simpleType>
1338 <xs:complexType name="DataValue" abstract="true">
1339     <xs:sequence>
1340         <xs:element name="dataError" type="D2LogicalModel:Boolean" minOccurs="0"
1341             maxOccurs="1" />
1342         <xs:element name="reasonForDataError" type="D2LogicalModel:MultilingualString"
1343             minOccurs="0" maxOccurs="1" />
1344         <xs:element name="dataValueExtension" type="D2LogicalModel:_ExtensionType"
1345             minOccurs="0" />
1346     </xs:sequence>
1347     <xs:attribute name="accuracy" type="D2LogicalModel:Percentage" use="optional" />
1348     <xs:attribute name="computationalMethod"
1349         type="D2LogicalModel:ComputationMethodEnum" use="optional" />
1350     <xs:attribute name="numberOfIncompleteInputs"
1351         type="D2LogicalModel:NonNegativeInteger" use="optional" />
1352     <xs:attribute name="numberOfInputValuesUsed"
1353         type="D2LogicalModel:NonNegativeInteger" use="optional" />
1354     <xs:attribute name="smoothingFactor" type="D2LogicalModel:Float" use="optional" />
1355     <xs:attribute name="standardDeviation" type="D2LogicalModel:Float"
1356         use="optional" />
1357     <xs:attribute name="supplierCalculatedDataQuality"
1358         type="D2LogicalModel:Percentage" use="optional" />
1359 </xs:complexType>
1360 <xs:simpleType name="Date">
1361     <xs:restriction base="xs:date" />
1362 </xs:simpleType>
1363 <xs:simpleType name="DateTime">
1364     <xs:restriction base="xs:dateTime" />
1365 </xs:simpleType>
1366 <xs:complexType name="DateTimeValue">
1367     <xs:complexContent>
1368         <xs:extension base="D2LogicalModel:DataValue">
1369             <xs:sequence>
1370                 <xs:element name="dateTime" type="D2LogicalModel:DateTime" minOccurs="1"
1371                     maxOccurs="1" />
1372                 <xs:element name="dateTimeValueExtension"
1373                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1374             </xs:sequence>
1375         </xs:extension>
1376     </xs:complexContent>
1377 </xs:complexType>
1378 <xs:simpleType name="DayEnum">
1379     <xs:restriction base="xs:string">
1380         <xs:enumeration value="monday" />
1381         <xs:enumeration value="tuesday" />
1382         <xs:enumeration value="wednesday" />
1383         <xs:enumeration value="thursday" />
1384         <xs:enumeration value="friday" />
1385         <xs:enumeration value="saturday" />
1386         <xs:enumeration value="sunday" />
1387     </xs:restriction>
1388 </xs:simpleType>
1389 <xs:complexType name="DayWeekMonth">
1390     <xs:sequence>
1391         <xs:element name="applicableDay" type="D2LogicalModel:DayEnum" minOccurs="0"
1392             maxOccurs="7" />
1393         <xs:element name="applicableWeek" type="D2LogicalModel:WeekOfMonthEnum"
1394             minOccurs="0" maxOccurs="5" />
1395         <xs:element name="applicableMonth" type="D2LogicalModel:MonthOfYearEnum"
1396             minOccurs="0" maxOccurs="12" />
1397         <xs:element name="dayWeekMonthExtension" type="D2LogicalModel:_ExtensionType"
1398             minOccurs="0" />
1399     </xs:sequence>

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1386 </xs:complexType>
1387 <xs:simpleType name="Decimal">
1388   <xs:restriction base="xs:decimal" />
1389 </xs:simpleType>
1390 <xs:complexType name="DedicatedAccess">
1391   <xs:sequence>
1392     <xs:element name="dedicatedAccess"
1393       type="D2LogicalModel:_ParkingAccessReference" minOccurs="1" maxOccurs="1" />
1394     <xs:element name="distanceFromParkingSpace"
1395       type="D2LogicalModel:MetresAsNonNegativeInteger" minOccurs="0" maxOccurs="1" />
1396     <xs:element name="dedicatedAccessExtension"
1397       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1398   </xs:sequence>
1399 </xs:complexType>
1400 <xs:simpleType name="DelayBandEnum">
1401   <xs:restriction base="xs:string">
1402     <xs:enumeration value="negligible" />
1403     <xs:enumeration value="upToTenMinutes" />
1404     <xs:enumeration value="betweenTenMinutesAndThirtyMinutes" />
1405     <xs:enumeration value="betweenThirtyMinutesAndOneHour" />
1406     <xs:enumeration value="betweenOneHourAndThreeHours" />
1407     <xs:enumeration value="betweenThreeHoursAndSixHours" />
1408     <xs:enumeration value="longerThanSixHours" />
1409   </xs:restriction>
1410 </xs:simpleType>
1411 <xs:complexType name="Delays">
1412   <xs:sequence>
1413     <xs:element name="delayBand" type="D2LogicalModel:DelayBandEnum" minOccurs="0"
1414       maxOccurs="1" />
1415     <xs:element name="delaysType" type="D2LogicalModel:DelaysTypeEnum"
1416       minOccurs="0" maxOccurs="1" />
1417     <xs:element name="delayTimeValue" type="D2LogicalModel:Seconds" minOccurs="0"
1418       maxOccurs="1" />
1419     <xs:element name="delaysExtension" type="D2LogicalModel:_ExtensionType"
1420       minOccurs="0" />
1421   </xs:sequence>
1422 </xs:complexType>
1423 <xs:simpleType name="DelaysTypeEnum">
1424   <xs:restriction base="xs:string">
1425     <xs:enumeration value="delays" />
1426     <xs:enumeration value="delaysOfUncertainDuration" />
1427     <xs:enumeration value="longDelays" />
1428     <xs:enumeration value="veryLongDelays" />
1429   </xs:restriction>
1430 </xs:simpleType>
1431 <xs:simpleType name="DenyReasonEnum">
1432   <xs:restriction base="xs:string">
1433     <xs:enumeration value="unknownReason" />
1434     <xs:enumeration value="wrongCatalogue" />
1435     <xs:enumeration value="wrongFilter" />
1436     <xs:enumeration value="wrongOrder" />
1437     <xs:enumeration value="wrongPartner" />
1438   </xs:restriction>
1439 </xs:simpleType>
1440 <xs:complexType name="Destination" abstract="true">
1441   <xs:sequence>
1442     <xs:element name="destinationExtension" type="D2LogicalModel:_ExtensionType"
1443       minOccurs="0" />
1444   </xs:sequence>
1445 </xs:complexType>
1446 <xs:complexType name="Dimension">
1447   <xs:sequence>
1448     <xs:element name="dimensionLength" type="D2LogicalModel:MetresAsFloat"
1449       minOccurs="0" maxOccurs="1" />
1450     <xs:element name="dimensionWidth" type="D2LogicalModel:MetresAsFloat"
1451       minOccurs="0" maxOccurs="1" />
1452     <xs:element name="dimensionHeight" type="D2LogicalModel:MetresAsFloat"
1453       minOccurs="0" maxOccurs="1" />
1454     <xs:element name="dimensionUsableArea" type="D2LogicalModel:SquareMetres"
1455       minOccurs="0" maxOccurs="1" />
1456     <xs:element name="dimensionExtension" type="D2LogicalModel:_ExtensionType"
1457       minOccurs="0" />

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1445     </xs:sequence>
1446 </xs:complexType>
1447 <xs:complexType name="DirectionBearingValue">
1448   <xs:complexContent>
1449     <xs:extension base="D2LogicalModel:DataValue">
1450       <xs:sequence>
1451         <xs:element name="directionBearing" type="D2LogicalModel:AngleInDegrees"
1452           minOccurs="1" maxOccurs="1" />
1453         <xs:element name="directionBearingValueExtension"
1454           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1455       </xs:sequence>
1456     </xs:extension>
1457   </xs:complexContent>
1458 </xs:complexType>
1459 <xs:simpleType name="DirectionCompassEnum">
1460   <xs:restriction base="xs:string">
1461     <xs:enumeration value="east" />
1462     <xs:enumeration value="eastNorthEast" />
1463     <xs:enumeration value="eastSouthEast" />
1464     <xs:enumeration value="north" />
1465     <xs:enumeration value="northEast" />
1466     <xs:enumeration value="northNorthEast" />
1467     <xs:enumeration value="northNorthWest" />
1468     <xs:enumeration value="northWest" />
1469     <xs:enumeration value="south" />
1470     <xs:enumeration value="southEast" />
1471     <xs:enumeration value="southSouthEast" />
1472     <xs:enumeration value="southSouthWest" />
1473     <xs:enumeration value="southWest" />
1474     <xs:enumeration value="west" />
1475     <xs:enumeration value="westNorthWest" />
1476     <xs:enumeration value="westSouthWest" />
1477   </xs:restriction>
1478 </xs:simpleType>
1479 <xs:complexType name="DirectionCompassValue">
1480   <xs:complexContent>
1481     <xs:extension base="D2LogicalModel:DataValue">
1482       <xs:sequence>
1483         <xs:element name="directionCompass"
1484           type="D2LogicalModel:DirectionCompassEnum" minOccurs="1" maxOccurs="1" />
1485         <xs:element name="directionCompassValueExtension"
1486           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1487       </xs:sequence>
1488     </xs:extension>
1489   </xs:complexContent>
1490 </xs:complexType>
1491 <xs:simpleType name="DirectionEnum">
1492   <xs:restriction base="xs:string">
1493     <xs:enumeration value="allDirections" />
1494     <xs:enumeration value="bothWays" />
1495     <xs:enumeration value="clockwise" />
1496     <xs:enumeration value="anticlockwise" />
1497     <xs:enumeration value="innerRing" />
1498     <xs:enumeration value="outerRing" />
1499     <xs:enumeration value="northBound" />
1500     <xs:enumeration value="northEastBound" />
1501     <xs:enumeration value="eastBound" />
1502     <xs:enumeration value="southEastBound" />
1503     <xs:enumeration value="southBound" />
1504     <xs:enumeration value="southWestBound" />
1505     <xs:enumeration value="westBound" />
1506     <xs:enumeration value="northWestBound" />
1507     <xs:enumeration value="inboundTowardsTown" />
1508     <xs:enumeration value="outboundFromTown" />
1509     <xs:enumeration value="unknown" />
1510     <xs:enumeration value="opposite" />
1511     <xs:enumeration value="other" />
1512   </xs:restriction>
1513 </xs:simpleType>
1514 <xs:complexType name="DistanceAlongLinearElement" abstract="true">
1515   <xs:sequence>
1516     <xs:element name="distanceAlongLinearElementExtension"

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1513         type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1514     </xs:sequence>
1515 </xs:complexType>
1516 <xs:complexType name="DistanceFromLinearElementReferent">
1517     <xs:complexContent>
1518         <xs:extension base="D2LogicalModel:DistanceAlongLinearElement">
1519             <xs:sequence>
1520                 <xs:element name="distanceAlong" type="D2LogicalModel:MetresAsFloat"
1521                     minOccurs="1" maxOccurs="1" />
1522                 <xs:element name="fromReferent" type="D2LogicalModel:Referent" />
1523                 <xs:element name="towardsReferent" type="D2LogicalModel:Referent"
1524                     minOccurs="0" />
1525                 <xs:element name="distanceFromLinearElementReferentExtension"
1526                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1527             </xs:sequence>
1528         </xs:extension>
1529     </xs:complexContent>
1530 </xs:complexType>
1531 <xs:complexType name="DistanceFromLinearElementStart">
1532     <xs:complexContent>
1533         <xs:extension base="D2LogicalModel:DistanceAlongLinearElement">
1534             <xs:sequence>
1535                 <xs:element name="distanceAlong" type="D2LogicalModel:MetresAsFloat"
1536                     minOccurs="1" maxOccurs="1" />
1537                 <xs:element name="distanceFromLinearElementStartExtension"
1538                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1539             </xs:sequence>
1540         </xs:extension>
1541     </xs:complexContent>
1542 </xs:complexType>
1543 <xs:complexType name="DisturbanceActivity">
1544     <xs:complexContent>
1545         <xs:extension base="D2LogicalModel:Activity">
1546             <xs:sequence>
1547                 <xs:element name="disturbanceActivityType"
1548                     type="D2LogicalModel:DisturbanceActivityTypeEnum" minOccurs="1"
1549                     maxOccurs="1" />
1550                 <xs:element name="disturbanceActivityExtension"
1551                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1552             </xs:sequence>
1553         </xs:extension>
1554     </xs:complexContent>
1555 </xs:complexType>
1556 <xs:simpleType name="DisturbanceActivityTypeEnum">
1557     <xs:restriction base="xs:string">
1558         <xs:enumeration value="airRaid" />
1559         <xs:enumeration value="altercationOfVehicleOccupants" />
1560         <xs:enumeration value="assault" />
1561         <xs:enumeration value="assetDestruction" />
1562         <xs:enumeration value="attack" />
1563         <xs:enumeration value="attackOnVehicle" />
1564         <xs:enumeration value="blockadeOrBarrier" />
1565         <xs:enumeration value="bombAlert" />
1566         <xs:enumeration value="crowd" />
1567         <xs:enumeration value="demonstration" />
1568         <xs:enumeration value="evacuation" />
1569         <xs:enumeration value="filterBlockade" />
1570         <xs:enumeration value="goSlowOperation" />
1571         <xs:enumeration value="gunfireOnRoadway" />
1572         <xs:enumeration value="illVehicleOccupants" />
1573         <xs:enumeration value="march" />
1574         <xs:enumeration value="publicDisturbance" />
1575         <xs:enumeration value="radioactiveLeakAlert" />
1576         <xs:enumeration value="riot" />
1577         <xs:enumeration value="sabotage" />
1578         <xs:enumeration value="securityAlert" />
1579         <xs:enumeration value="securityIncident" />
1580         <xs:enumeration value="sightseersObstructingAccess" />
1581         <xs:enumeration value="strike" />
1582         <xs:enumeration value="terroristIncident" />
1583         <xs:enumeration value="theft" />
1584         <xs:enumeration value="toxicCloudAlert" />

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1576     <xs:enumeration value="unspecifiedAlert" />
1577     <xs:enumeration value="other" />
1578 </xs:restriction>
1579 </xs:simpleType>
1580 <xs:simpleType name="DrivingConditionTypeEnum">
1581   <xs:restriction base="xs:string">
1582     <xs:enumeration value="impossible" />
1583     <xs:enumeration value="hazardous" />
1584     <xs:enumeration value="normal" />
1585     <xs:enumeration value="passableWithCare" />
1586     <xs:enumeration value="unknown" />
1587     <xs:enumeration value="veryHazardous" />
1588     <xs:enumeration value="winterConditions" />
1589     <xs:enumeration value="other" />
1590   </xs:restriction>
1591 </xs:simpleType>
1592 <xs:complexType name="DurationValue">
1593   <xs:complexContent>
1594     <xs:extension base="D2LogicalModel:DataValue">
1595       <xs:sequence>
1596         <xs:element name="duration" type="D2LogicalModel:Seconds" minOccurs="1"
1597           maxOccurs="1" />
1598         <xs:element name="durationValueExtension"
1599           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1600       </xs:sequence>
1601     </xs:extension>
1602   </xs:complexContent>
1603 </xs:complexType>
1604 <xs:complexType name="ElaboratedData">
1605   <xs:sequence>
1606     <xs:element name="forecast" type="D2LogicalModel:Boolean" minOccurs="0"
1607       maxOccurs="1" />
1608     <xs:element name="source" type="D2LogicalModel:Source" minOccurs="0" />
1609     <xs:element name="validity" type="D2LogicalModel:Validity" minOccurs="0" />
1610     <xs:element name="elaboratedDataFault"
1611       type="D2LogicalModel:ElaboratedDataFault" minOccurs="0" maxOccurs="unbounded" />
1612     <xs:element name="basicData" type="D2LogicalModel:BasicData" minOccurs="0" />
1613     <xs:element name="elaboratedDataExtension"
1614       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1615   </xs:sequence>
1616 </xs:complexType>
1617 <xs:complexType name="ElaboratedDataFault">
1618   <xs:complexContent>
1619     <xs:extension base="D2LogicalModel:Fault">
1620       <xs:sequence>
1621         <xs:element name="elaboratedDataFault"
1622           type="D2LogicalModel:ElaboratedDataFaultEnum" minOccurs="1" maxOccurs="1" />
1623         <xs:element name="elaboratedDataFaultExtension"
1624           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1625       </xs:sequence>
1626     </xs:extension>
1627   </xs:complexContent>
1628 </xs:complexType>
1629 <xs:simpleType name="ElaboratedDataFaultEnum">
1630   <xs:restriction base="xs:string">
1631     <xs:enumeration value="intermittentDataValues" />
1632     <xs:enumeration value="noDataValuesAvailable" />
1633     <xs:enumeration value="spuriousUnreliableDataValues" />
1634     <xs:enumeration value="unspecifiedOrUnknownFault" />
1635     <xs:enumeration value="other" />
1636   </xs:restriction>
1637 </xs:simpleType>
1638 <xs:complexType name="ElaboratedDataPublication">
1639   <xs:complexContent>
1640     <xs:extension base="D2LogicalModel:PayloadPublication">
1641       <xs:sequence>
1642         <xs:element name="forecastDefault" type="D2LogicalModel:Boolean"
1643           minOccurs="0" maxOccurs="1" />
1644         <xs:element name="periodDefault" type="D2LogicalModel:Seconds"
1645           minOccurs="0" maxOccurs="1" />
1646         <xs:element name="timeDefault" type="D2LogicalModel:DateTime"
1647           minOccurs="0" maxOccurs="1" />

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1638     <xs:element name="headerInformation"
1639         type="D2LogicalModel:HeaderInformation" />
1640     <xs:element name="referenceSettings"
1641         type="D2LogicalModel:ReferenceSettings" minOccurs="0" />
1642     <xs:element name="elaboratedData" type="D2LogicalModel:ElaboratedData"
1643         maxOccurs="unbounded" />
1644     <xs:element name="elaboratedDataPublicationExtension"
1645         type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1646 </xs:sequence>
1647 </xs:extension>
1648 </xs:complexContent>
1649 </xs:complexType>
1650 <xs:complexType name="ElectricCharging">
1651     <xs:sequence>
1652         <xs:element name="chargingStationUsageType"
1653             type="D2LogicalModel:ChargingStationUsageTypeEnum" minOccurs="1"
1654             maxOccurs="unbounded" />
1655         <xs:element name="chargingStationModelType"
1656             type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
1657         <xs:element name="maximumCurrent" type="D2LogicalModel:Ampere" minOccurs="0"
1658             maxOccurs="1" />
1659         <xs:element name="voltage" type="D2LogicalModel:Volt" minOccurs="0"
1660             maxOccurs="unbounded" />
1661         <xs:element name="chargingStationConnectorType"
1662             type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="unbounded" />
1663         <xs:element name="numberOfChargingPoints"
1664             type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
1665         <xs:element name="electricChargingExtension"
1666             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1667     </xs:sequence>
1668 </xs:complexType>
1669 <xs:complexType name="EnvironmentalObstruction">
1670     <xs:complexContent>
1671         <xs:extension base="D2LogicalModel:Obstruction">
1672             <xs:sequence>
1673                 <xs:element name="depth" type="D2LogicalModel:MetresAsFloat" minOccurs="0"
1674                     maxOccurs="1" />
1675                 <xs:element name="environmentalObstructionType"
1676                     type="D2LogicalModel:EnvironmentalObstructionTypeEnum" minOccurs="1"
1677                     maxOccurs="1" />
1678                 <xs:element name="environmentalObstructionExtension"
1679                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1680             </xs:sequence>
1681         </xs:extension>
1682     </xs:complexContent>
1683 </xs:complexType>
1684 <xs:simpleType name="EnvironmentalObstructionTypeEnum">
1685     <xs:restriction base="xs:string">
1686         <xs:enumeration value="avalanches" />
1687         <xs:enumeration value="earthquakeDamage" />
1688         <xs:enumeration value="fallenTrees" />
1689         <xs:enumeration value="fallingIce" />
1690         <xs:enumeration value="fallingLightIceOrSnow" />
1691         <xs:enumeration value="flashFloods" />
1692         <xs:enumeration value="flooding" />
1693         <xs:enumeration value="forestFire" />
1694         <xs:enumeration value="grassFire" />
1695         <xs:enumeration value="landslips" />
1696         <xs:enumeration value="mudSlide" />
1697         <xs:enumeration value="sewerOverflow" />
1698         <xs:enumeration value="rockfalls" />
1699         <xs:enumeration value="seriousFire" />
1700         <xs:enumeration value="smokeOrFumes" />
1701         <xs:enumeration value="stormDamage" />
1702         <xs:enumeration value="subsidence" />
1703         <xs:enumeration value="other" />
1704     </xs:restriction>
1705 </xs:simpleType>
1706 <xs:complexType name="Equipment">
1707     <xs:complexContent>
1708         <xs:extension base="D2LogicalModel:ParkingEquipmentOrServiceFacility">
1709             <xs:sequence>

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1694     <xs:element name="equipmentType" type="D2LogicalModel:EquipmentTypeEnum"
1695     minOccurs="1" maxOccurs="1" />
1696     <xs:element name="electricCharging" type="D2LogicalModel:ElectricCharging"
1697     minOccurs="0" />
1698     <xs:element name="equipmentExtension" type="D2LogicalModel:_ExtensionType"
1699     minOccurs="0" />
1700   </xs:sequence>
1701 </xs:extension>
1702 </xs:complexContent>
1703 </xs:complexType>
1704 <xs:complexType name="EquipmentOrSystemFault">
1705   <xs:complexContent>
1706     <xs:extension base="D2LogicalModel:TrafficElement">
1707       <xs:sequence>
1708         <xs:element name="equipmentOrSystemFaultType"
1709         type="D2LogicalModel:EquipmentOrSystemFaultTypeEnum" minOccurs="1"
1710         maxOccurs="1" />
1711         <xs:element name="faultyEquipmentOrSystemType"
1712         type="D2LogicalModel:EquipmentOrSystemTypeEnum" minOccurs="1"
1713         maxOccurs="1" />
1714         <xs:element name="equipmentOrSystemFaultExtension"
1715         type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1716       </xs:sequence>
1717     </xs:extension>
1718   </xs:complexContent>
1719 </xs:complexType>
1720 <xs:simpleType name="EquipmentOrSystemFaultTypeEnum">
1721   <xs:restriction base="xs:string">
1722     <xs:enumeration value="notWorking" />
1723     <xs:enumeration value="outOfService" />
1724     <xs:enumeration value="workingIncorrectly" />
1725     <xs:enumeration value="workingIntermittently" />
1726   </xs:restriction>
1727 </xs:simpleType>
1728 <xs:simpleType name="EquipmentOrSystemTypeEnum">
1729   <xs:restriction base="xs:string">
1730     <xs:enumeration value="anprCameras" />
1731     <xs:enumeration value="automatedTollSystem" />
1732     <xs:enumeration value="cctvCameras" />
1733     <xs:enumeration value="emergencyRoadsideTelephones" />
1734     <xs:enumeration value="galleryLights" />
1735     <xs:enumeration value="laneControlSigns" />
1736     <xs:enumeration value="levelCrossing" />
1737     <xs:enumeration value="matrixSigns" />
1738     <xs:enumeration value="rampControls" />
1739     <xs:enumeration value="roadsideCommunicationsSystem" />
1740     <xs:enumeration value="roadsidePowerSystem" />
1741     <xs:enumeration value="speedControlSigns" />
1742     <xs:enumeration value="streetLighting" />
1743     <xs:enumeration value="temporaryTrafficLights" />
1744     <xs:enumeration value="tollGates" />
1745     <xs:enumeration value="trafficLightSets" />
1746     <xs:enumeration value="trafficSignals" />
1747     <xs:enumeration value="tunnelLights" />
1748     <xs:enumeration value="tunnelVentilation" />
1749     <xs:enumeration value="variableMessageSigns" />
1750     <xs:enumeration value="other" />
1751   </xs:restriction>
1752 </xs:simpleType>
1753 <xs:simpleType name="EquipmentTypeEnum">
1754   <xs:restriction base="xs:string">
1755     <xs:enumeration value="toilet" />
1756     <xs:enumeration value="shower" />
1757     <xs:enumeration value="informationPoint" />
1758     <xs:enumeration value="informatonStele" />
1759     <xs:enumeration value="internetTerminal" />
1760     <xs:enumeration value="internetWireless" />
1761     <xs:enumeration value="payDesk" />
1762     <xs:enumeration value="paymentMachine" />
1763     <xs:enumeration value="cashMachine" />
1764     <xs:enumeration value="vendingMachine" />
1765     <xs:enumeration value="faxMachineOrService" />

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1758     <xs:enumeration value="copyMachineOrService" />
1759     <xs:enumeration value="safeDeposit" />
1760     <xs:enumeration value="luggageLocker" />
1761     <xs:enumeration value="publicPhone" />
1762     <xs:enumeration value="publicCoinPhone" />
1763     <xs:enumeration value="publicCardPhone" />
1764     <xs:enumeration value="elevator" />
1765     <xs:enumeration value="picnicFacilities" />
1766     <xs:enumeration value="dumpingStation" />
1767     <xs:enumeration value="freshWater" />
1768     <xs:enumeration value="wasteDisposal" />
1769     <xs:enumeration value="refuseBin" />
1770     <xs:enumeration value="iceFreeScaffold" />
1771     <xs:enumeration value="playground" />
1772     <xs:enumeration value="electricChargingStation" />
1773     <xs:enumeration value="bikeParking" />
1774     <xs:enumeration value="tollTerminal" />
1775     <xs:enumeration value="defibrillator" />
1776     <xs:enumeration value="firstAidEquipment" />
1777     <xs:enumeration value="fireHose" />
1778     <xs:enumeration value="fireExtinguisher" />
1779     <xs:enumeration value="fireHydrant" />
1780     <xs:enumeration value="none" />
1781     <xs:enumeration value="unknown" />
1782     <xs:enumeration value="other" />
1783 </xs:restriction>
1784 </xs:simpleType>
1785 <xs:complexType name="Exchange">
1786     <xs:sequence>
1787         <xs:element name="changedFlag" type="D2LogicalModel:ChangedFlagEnum"
1788             minOccurs="0" maxOccurs="1" />
1789         <xs:element name="clientIdentification" type="D2LogicalModel:String"
1790             minOccurs="0" maxOccurs="1" />
1791         <xs:element name="deliveryBreak" type="D2LogicalModel:Boolean" minOccurs="0"
1792             maxOccurs="1" />
1793         <xs:element name="denyReason" type="D2LogicalModel:DenyReasonEnum"
1794             minOccurs="0" maxOccurs="1" />
1795         <xs:element name="historicalStartDate" type="D2LogicalModel:DateTime"
1796             minOccurs="0" maxOccurs="1" />
1797         <xs:element name="historicalStopDate" type="D2LogicalModel:DateTime"
1798             minOccurs="0" maxOccurs="1" />
1799         <xs:element name="keepAlive" type="D2LogicalModel:Boolean" minOccurs="0"
1800             maxOccurs="1" />
1801         <xs:element name="requestType" type="D2LogicalModel:RequestTypeEnum"
1802             minOccurs="0" maxOccurs="1" />
1803         <xs:element name="response" type="D2LogicalModel:ResponseEnum" minOccurs="0"
1804             maxOccurs="1" />
1805         <xs:element name="subscriptionReference" type="D2LogicalModel:String"
1806             minOccurs="0" maxOccurs="1" />
1807         <xs:element name="supplierIdentification"
1808             type="D2LogicalModel:InternationalIdentifier" />
1809         <xs:element name="target" type="D2LogicalModel:Target" minOccurs="0" />
1810         <xs:element name="subscription" type="D2LogicalModel:Subscription"
1811             minOccurs="0" />
1812         <xs:element name="filterReference" type="D2LogicalModel:FilterReference"
1813             minOccurs="0" maxOccurs="unbounded" />
1814         <xs:element name="catalogueReference" type="D2LogicalModel:CatalogueReference"
1815             minOccurs="0" maxOccurs="unbounded" />
1816         <xs:element name="exchangeExtension" type="D2LogicalModel:_ExtensionType"
1817             minOccurs="0" />
1818     </xs:sequence>
1819 </xs:complexType>
1820 <xs:complexType name="ExtendedVmsMessage">
1821     <xs:sequence>
1822         <xs:element name="iviIdentificationNumber"
1823             type="D2LogicalModel:NonNegativeInteger" minOccurs="1" maxOccurs="1" />
1824         <xs:element name="validTo" type="D2LogicalModel:DateTime" minOccurs="1"
1825             maxOccurs="1" />
1826     </xs:sequence>
1827 </xs:complexType>
1828 <xs:complexType name="ExternalReferencing">
1829     <xs:sequence>

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1813     <xs:element name="externalLocationCode" type="D2LogicalModel:String"
1814     minOccurs="1" maxOccurs="1" />
1815     <xs:element name="externalReferencingSystem" type="D2LogicalModel:String"
1816     minOccurs="1" maxOccurs="1" />
1817     <xs:element name="externalReferencingExtension"
1818     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1819   </xs:sequence>
1820 </xs:complexType>
1821 <xs:complexType name="Fault">
1822   <xs:sequence>
1823     <xs:element name="faultIdentifier" type="D2LogicalModel:String" minOccurs="0"
1824     maxOccurs="1" />
1825     <xs:element name="faultDescription" type="D2LogicalModel:String" minOccurs="0"
1826     maxOccurs="1" />
1827     <xs:element name="faultCreationTime" type="D2LogicalModel:DateTime"
1828     minOccurs="0" maxOccurs="1" />
1829     <xs:element name="faultLastUpdateTime" type="D2LogicalModel:DateTime"
1830     minOccurs="1" maxOccurs="1" />
1831     <xs:element name="faultSeverity" type="D2LogicalModel:FaultSeverityEnum"
1832     minOccurs="0" maxOccurs="1" />
1833     <xs:element name="faultExtension" type="D2LogicalModel:_ExtensionType"
1834     minOccurs="0" />
1835   </xs:sequence>
1836 </xs:complexType>
1837 <xs:simpleType name="FaultSeverityEnum">
1838   <xs:restriction base="xs:string">
1839     <xs:enumeration value="low" />
1840     <xs:enumeration value="medium" />
1841     <xs:enumeration value="high" />
1842     <xs:enumeration value="unknown" />
1843   </xs:restriction>
1844 </xs:simpleType>
1845 <xs:complexType name="FilterExitManagement">
1846   <xs:sequence>
1847     <xs:element name="filterEnd" type="D2LogicalModel:Boolean" minOccurs="1"
1848     maxOccurs="1" />
1849     <xs:element name="filterOutOfRange" type="D2LogicalModel:Boolean"
1850     minOccurs="1" maxOccurs="1" />
1851     <xs:element name="filterExitManagementExtension"
1852     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1853   </xs:sequence>
1854 </xs:complexType>
1855 <xs:complexType name="FilterReference">
1856   <xs:sequence>
1857     <xs:element name="deleteFilter" type="D2LogicalModel:Boolean" minOccurs="0"
1858     maxOccurs="1" />
1859     <xs:element name="filterOperationApproved" type="D2LogicalModel:Boolean"
1860     minOccurs="0" maxOccurs="1" />
1861     <xs:element name="keyFilterReference" type="D2LogicalModel:String"
1862     minOccurs="1" maxOccurs="1" />
1863     <xs:element name="filterReferenceExtension"
1864     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1865   </xs:sequence>
1866 </xs:complexType>
1867 <xs:simpleType name="Float">
1868   <xs:restriction base="xs:float" />
1869 </xs:simpleType>
1870 <xs:complexType name="FloatingPointMetreDistanceValue">
1871   <xs:complexContent>
1872     <xs:extension base="D2LogicalModel:DataValue">
1873       <xs:sequence>
1874         <xs:element name="floatingPointMetreDistance"
1875         type="D2LogicalModel:MetresAsFloat" minOccurs="1" maxOccurs="1" />
1876         <xs:element name="floatingPointMetreDistanceValueExtension"
1877         type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1878       </xs:sequence>
1879     </xs:extension>
1880   </xs:complexContent>
1881 </xs:complexType>
1882 <xs:simpleType name="FuelType2Enum">
1883   <xs:restriction base="xs:string">
1884     <xs:enumeration value="all" />

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1867     <xs:enumeration value="petrol95Octane" />
1868     <xs:enumeration value="petrol98Octane" />
1869     <xs:enumeration value="petrolLeaded" />
1870     <xs:enumeration value="petrolUnleaded" />
1871     <xs:enumeration value="unknown" />
1872     <xs:enumeration value="other" />
1873 </xs:restriction>
1874 </xs:simpleType>
1875 <xs:simpleType name="FuelTypeEnum">
1876     <xs:restriction base="xs:string">
1877         <xs:enumeration value="battery" />
1878         <xs:enumeration value="biodiesel" />
1879         <xs:enumeration value="diesel" />
1880         <xs:enumeration value="dieselBatteryHybrid" />
1881         <xs:enumeration value="ethanol" />
1882         <xs:enumeration value="hydrogen" />
1883         <xs:enumeration value="liquidGas" />
1884         <xs:enumeration value="lpg" />
1885         <xs:enumeration value="methane" />
1886         <xs:enumeration value="petrol" />
1887         <xs:enumeration value="petrolBatteryHybrid" />
1888     </xs:restriction>
1889 </xs:simpleType>
1890 <xs:complexType name="GeneralInstructionOrMessageToRoadUsers">
1891     <xs:complexContent>
1892         <xs:extension base="D2LogicalModel:NetworkManagement">
1893             <xs:sequence>
1894                 <xs:element name="generalInstructionToRoadUsersType"
1895                     type="D2LogicalModel:GeneralInstructionToRoadUsersTypeEnum" minOccurs="0"
1896                     maxOccurs="1" />
1897                 <xs:element name="generalMessageToRoadUsers"
1898                     type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
1899                 <xs:element name="generalInstructionOrMessageToRoadUsersExtension"
1900                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1901             </xs:sequence>
1902         </xs:extension>
1903     </xs:complexContent>
1904 </xs:complexType>
1905 <xs:simpleType name="GeneralInstructionToRoadUsersTypeEnum">
1906     <xs:restriction base="xs:string">
1907         <xs:enumeration value="allowEmergencyVehiclesToPass" />
1908         <xs:enumeration value="approachWithCare" />
1909         <xs:enumeration value="avoidTheArea" />
1910         <xs:enumeration value="closeAllWindowsTurnOffHeaterAndVents" />
1911         <xs:enumeration value="crossJunctionWithCare" />
1912         <xs:enumeration value="doNotAllowUnnecessaryGaps" />
1913         <xs:enumeration value="doNotLeaveYourVehicle" />
1914         <xs:enumeration value="doNotThrowOutAnyBurningObjects" />
1915         <xs:enumeration value="doNotUseNavigationSystems" />
1916         <xs:enumeration value="driveCarefully" />
1917         <xs:enumeration value="driveWithExtremeCaution" />
1918         <xs:enumeration value="flashYourLights" />
1919         <xs:enumeration value="followTheVehicleInFrontSmoothly" />
1920         <xs:enumeration value="increaseNormalFollowingDistance" />
1921         <xs:enumeration value="inEmergencyWaitForPatrolService" />
1922         <xs:enumeration value="keepYourDistance" />
1923         <xs:enumeration value="leaveYourVehicleProceedToNextSafePlace" />
1924         <xs:enumeration value="noNakedFlames" />
1925         <xs:enumeration value="noOvertaking" />
1926         <xs:enumeration value="noSmoking" />
1927         <xs:enumeration value="noStopping" />
1928         <xs:enumeration value="noUturns" />
1929         <xs:enumeration value="observeAmberAlert" />
1930         <xs:enumeration value="observeSignals" />
1931         <xs:enumeration value="observeSigns" />
1932         <xs:enumeration value="onlyTravelIfAbsolutelyNecessary" />
1933         <xs:enumeration value="overtakeWithCare" />
1934         <xs:enumeration value="pullOverToTheEdgeOfTheRoadway" />
1935         <xs:enumeration value="stopAtNextSafePlace" />
1936         <xs:enumeration value="stopAtNextServiceArea" />
1937         <xs:enumeration value="switchOffEngine" />
1938         <xs:enumeration value="switchOffMobilePhonesAndTwoWayRadios" />

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1935     <xs:enumeration value="testYourBrakes" />
1936     <xs:enumeration value="useBusService" />
1937     <xs:enumeration value="useFogLights" />
1938     <xs:enumeration value="useHazardWarningLights" />
1939     <xs:enumeration value="useHeadlights" />
1940     <xs:enumeration value="useRailService" />
1941     <xs:enumeration value="useTramService" />
1942     <xs:enumeration value="useUndergroundService" />
1943     <xs:enumeration value="waitForEscortVehicle" />
1944     <xs:enumeration value="other" />
1945 </xs:restriction>
1946 </xs:simpleType>
1947 <xs:complexType name="GeneralNetworkManagement">
1948     <xs:complexContent>
1949         <xs:extension base="D2LogicalModel:NetworkManagement">
1950             <xs:sequence>
1951                 <xs:element name="generalNetworkManagementType"
1952                     type="D2LogicalModel:GeneralNetworkManagementTypeEnum" minOccurs="1"
1953                     maxOccurs="1" />
1954                 <xs:element name="trafficManuallyDirectedBy"
1955                     type="D2LogicalModel:PersonCategoryEnum" minOccurs="0" maxOccurs="1" />
1956                 <xs:element name="generalNetworkManagementExtension"
1957                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1958             </xs:sequence>
1959         </xs:extension>
1960     </xs:complexContent>
1961 </xs:complexType>
1962 <xs:simpleType name="GeneralNetworkManagementTypeEnum">
1963     <xs:restriction base="xs:string">
1964         <xs:enumeration value="bridgeSwingInOperation" />
1965         <xs:enumeration value="convoyService" />
1966         <xs:enumeration value="obstacleSignalling" />
1967         <xs:enumeration value="rampMeteringInOperation" />
1968         <xs:enumeration value="temporaryTrafficLights" />
1969         <xs:enumeration value="tollGatesOpen" />
1970         <xs:enumeration value="trafficBeingManuallyDirected" />
1971         <xs:enumeration value="trafficHeld" />
1972         <xs:enumeration value="other" />
1973     </xs:restriction>
1974 </xs:simpleType>
1975 <xs:complexType name="GeneralObstruction">
1976     <xs:complexContent>
1977         <xs:extension base="D2LogicalModel:Obstruction">
1978             <xs:sequence>
1979                 <xs:element name="obstructionType"
1980                     type="D2LogicalModel:ObstructionTypeEnum" minOccurs="1"
1981                     maxOccurs="unbounded" />
1982                 <xs:element name="groupOfPeopleInvolved"
1983                     type="D2LogicalModel:GroupOfPeopleInvolved" minOccurs="0"
1984                     maxOccurs="unbounded" />
1985                 <xs:element name="generalObstructionExtension"
1986                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
1987             </xs:sequence>
1988         </xs:extension>
1989     </xs:complexContent>
1990 </xs:complexType>
1991 <xs:complexType name="GenericPublication">
1992     <xs:complexContent>
1993         <xs:extension base="D2LogicalModel:PayloadPublication">
1994             <xs:sequence>
1995                 <xs:element name="genericPublicationName" type="D2LogicalModel:String"
1996                     minOccurs="1" maxOccurs="1" />
1997                 <xs:element name="genericPublicationExtension"
1998                     type="D2LogicalModel:_GenericPublicationExtensionType" minOccurs="0" />
1999             </xs:sequence>
2000         </xs:extension>
2001     </xs:complexContent>
2002 </xs:complexType>
2003 <xs:complexType name="GenericSituationRecord" abstract="true">
2004     <xs:complexContent>
2005         <xs:extension base="D2LogicalModel:SituationRecord">
2006             <xs:sequence>

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1996         <xs:element name="genericSituationRecordName" type="D2LogicalModel:String"
1997             minOccurs="1" maxOccurs="1" />
1998         <xs:element name="genericSituationRecordExtension"
1999             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2000     </xs:sequence>
2001 </xs:extension>
2002 </xs:complexContent>
2003 </xs:complexType>
2004 <xs:complexType name="GrossWeightCharacteristic">
2005     <xs:sequence>
2006         <xs:element name="comparisonOperator"
2007             type="D2LogicalModel:ComparisonOperatorEnum" minOccurs="1" maxOccurs="1" />
2008         <xs:element name="grossVehicleWeight" type="D2LogicalModel:Tonnes"
2009             minOccurs="1" maxOccurs="1" />
2010         <xs:element name="grossWeightCharacteristicExtension"
2011             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2012     </xs:sequence>
2013 </xs:complexType>
2014 <xs:complexType name="GroupOfLocations" abstract="true">
2015     <xs:sequence>
2016         <xs:element name="groupOfLocationsExtension"
2017             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2018     </xs:sequence>
2019 </xs:complexType>
2020 <xs:complexType name="GroupOfParkingSites">
2021     <xs:complexContent>
2022         <xs:extension base="D2LogicalModel:ParkingRecord">
2023             <xs:sequence>
2024                 <xs:element name="groupOfParkingSitesType"
2025                     type="D2LogicalModel:GroupOfParkingSitesTypeEnum" minOccurs="0"
2026                     maxOccurs="1" />
2027                 <xs:element name="parkingSiteByReference"
2028                     type="D2LogicalModel:_ParkingRecordVersionedReference" minOccurs="0"
2029                     maxOccurs="unbounded" />
2030                 <xs:element name="parkingSite" type="D2LogicalModel:ParkingSite"
2031                     minOccurs="0" maxOccurs="unbounded" />
2032                 <xs:element name="groupOfParkingSitesExtension"
2033                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2034             </xs:sequence>
2035         </xs:extension>
2036     </xs:complexContent>
2037 </xs:complexType>
2038 <xs:complexType name="GroupOfParkingSitesStatus">
2039     <xs:complexContent>
2040         <xs:extension base="D2LogicalModel:ParkingRecordStatus">
2041             <xs:sequence>
2042                 <xs:element name="groupOfParkingSitesStatus"
2043                     type="D2LogicalModel:GroupOfParkingSitesStatusEnum" minOccurs="0"
2044                     maxOccurs="1" />
2045                 <xs:element name="groupOfParkingSitesStatusExtension"
2046                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2047             </xs:sequence>
2048         </xs:extension>
2049     </xs:complexContent>
2050 </xs:complexType>
2051 <xs:simpleType name="GroupOfParkingSitesStatusEnum">
2052     <xs:restriction base="xs:string">
2053         <xs:enumeration value="allParkingsFull" />
2054         <xs:enumeration value="multiStoreyParkingsFull" />
2055         <xs:enumeration value="noMoreParkingSpacesAvailable" />
2056         <xs:enumeration value="enoughSpacesAvailable" />
2057         <xs:enumeration value="unknown" />
2058         <xs:enumeration value="other" />
2059     </xs:restriction>
2060 </xs:simpleType>
2061 <xs:simpleType name="GroupOfParkingSitesTypeEnum">
2062     <xs:restriction base="xs:string">
2063         <xs:enumeration value="parkingArea" />
2064         <xs:enumeration value="truckParkingPriorityZone" />
2065         <xs:enumeration value="aggregationOfInformation" />
2066         <xs:enumeration value="inhabitantZone" />
2067     </xs:restriction>

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2053 </xs:simpleType>
2054 <xs:complexType name="GroupOfParkingSpaces">
2055   <xs:complexContent>
2056     <xs:extension base="D2LogicalModel:ParkingSpaceBasics">
2057       <xs:sequence>
2058         <xs:element name="parkingNumberOfSpaces"
2059           type="D2LogicalModel:NonNegativeInteger" minOccurs="1" maxOccurs="1" />
2060         <xs:element name="parkingTypeOfGroup"
2061           type="D2LogicalModel:ParkingTypeOfGroup" minOccurs="1" maxOccurs="1" />
2062         <xs:element name="identicalToGroup" type="D2LogicalModel:IndexReference"
2063           minOccurs="0" maxOccurs="unbounded" />
2064         <xs:element name="realSubsetOfGroup" type="D2LogicalModel:IndexReference"
2065           minOccurs="0" maxOccurs="unbounded" />
2066         <xs:element name="minimumParkingSpaceDimension"
2067           type="D2LogicalModel:Dimension" minOccurs="0" />
2068         <xs:element name="dimensionOfGroup" type="D2LogicalModel:Dimension"
2069           minOccurs="0" />
2070         <xs:element name="maximumParkingSpaceDimension"
2071           type="D2LogicalModel:Dimension" minOccurs="0" />
2072         <xs:element name="parkingSpace"
2073           type="D2LogicalModel:_GroupOfParkingSpacesParkingSpaceIndexParkingSpace"
2074           minOccurs="0" maxOccurs="unbounded" />
2075         <xs:element name="groupOfLocations" type="D2LogicalModel:GroupOfLocations"
2076           minOccurs="0" />
2077         <xs:element name="groupOfParkingSpacesExtension"
2078           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2079       </xs:sequence>
2080     </xs:extension>
2081   </xs:complexContent>
2082 </xs:complexType>
2083 <xs:complexType name="GroupOfParkingSpacesStatus">
2084   <xs:complexContent>
2085     <xs:extension base="D2LogicalModel:ParkingOccupancy">
2086       <xs:sequence>
2087         <xs:element name="groupDeclarationValidNow" type="D2LogicalModel:Boolean"
2088           minOccurs="0" maxOccurs="1" />
2089         <xs:element name="groupOfParkingSpacesClosed"
2090           type="D2LogicalModel:Boolean" minOccurs="0" maxOccurs="1" />
2091         <xs:element name="groupOfParkingSpacesStatusExtension"
2092           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2093       </xs:sequence>
2094     </xs:extension>
2095   </xs:complexContent>
2096 </xs:complexType>
2097 <xs:complexType name="GroupOfPeopleInvolved">
2098   <xs:sequence>
2099     <xs:element name="numberOfPeople" type="D2LogicalModel:NonNegativeInteger"
2100       minOccurs="0" maxOccurs="1" />
2101     <xs:element name="injuryStatus" type="D2LogicalModel:InjuryStatusTypeEnum"
2102       minOccurs="0" maxOccurs="1" />
2103     <xs:element name="involvementRole" type="D2LogicalModel:InvolvementRolesEnum"
2104       minOccurs="0" maxOccurs="1" />
2105     <xs:element name="categoryOfPeopleInvolved"
2106       type="D2LogicalModel:PersonCategoryEnum" minOccurs="0" maxOccurs="1" />
2107     <xs:element name="groupOfPeopleInvolvedExtension"
2108       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2109   </xs:sequence>
2110 </xs:complexType>
2111 <xs:complexType name="GroupOfVehiclesInvolved">
2112   <xs:sequence>
2113     <xs:element name="numberOfVehicles" type="D2LogicalModel:NonNegativeInteger"
2114       minOccurs="0" maxOccurs="1" />
2115     <xs:element name="vehicleStatus" type="D2LogicalModel:VehicleStatusEnum"
2116       minOccurs="0" maxOccurs="1" />
2117     <xs:element name="vehicleCharacteristics"
2118       type="D2LogicalModel:VehicleCharacteristics" minOccurs="0" />
2119     <xs:element name="groupOfVehiclesInvolvedExtension"
2120       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2121   </xs:sequence>
2122 </xs:complexType>
2123 <xs:complexType name="HazardousMaterials">
2124   <xs:sequence>

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2102     <xs:element name="chemicalName" type="D2LogicalModel:MultilingualString"
2103     minOccurs="1" maxOccurs="1" />
2104     <xs:element name="dangerousGoodsFlashPoint"
2105     type="D2LogicalModel:TemperatureCelsius" minOccurs="0" maxOccurs="1" />
2106     <xs:element name="dangerousGoodsRegulations"
2107     type="D2LogicalModel:DangerousGoodsRegulationsEnum" minOccurs="0"
2108     maxOccurs="1" />
2109     <xs:element name="hazardCodeIdentification" type="D2LogicalModel:String"
2110     minOccurs="0" maxOccurs="1" />
2111     <xs:element name="hazardCodeVersionNumber"
2112     type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
2113     <xs:element name="hazardSubstanceItemPageNumber" type="D2LogicalModel:String"
2114     minOccurs="0" maxOccurs="1" />
2115     <xs:element name="tremCardNumber" type="D2LogicalModel:String" minOccurs="0"
2116     maxOccurs="1" />
2117     <xs:element name="undgNumber" type="D2LogicalModel:String" minOccurs="0"
2118     maxOccurs="1" />
2119     <xs:element name="volumeOfDangerousGoods" type="D2LogicalModel:CubicMetres"
2120     minOccurs="0" maxOccurs="1" />
2121     <xs:element name="weightOfDangerousGoods" type="D2LogicalModel:Tonnes"
2122     minOccurs="0" maxOccurs="1" />
2123     <xs:element name="hazardousMaterialsExtension"
2124     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2125   </xs:sequence>
2126 </xs:complexType>
2127 <xs:complexType name="HeaderInformation">
2128   <xs:sequence>
2129     <xs:element name="areaOfInterest" type="D2LogicalModel:AreaOfInterestEnum"
2130     minOccurs="0" maxOccurs="1" />
2131     <xs:element name="confidentiality"
2132     type="D2LogicalModel:ConfidentialityValueEnum" minOccurs="1" maxOccurs="1" />
2133     <xs:element name="informationStatus"
2134     type="D2LogicalModel:InformationStatusEnum" minOccurs="1" maxOccurs="1" />
2135     <xs:element name="urgency" type="D2LogicalModel:UrgencyEnum" minOccurs="0"
2136     maxOccurs="1" />
2137     <xs:element name="headerInformationExtension"
2138     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2139   </xs:sequence>
2140 </xs:complexType>
2141 <xs:complexType name="HeaviestAxleWeightCharacteristic">
2142   <xs:sequence>
2143     <xs:element name="comparisonOperator"
2144     type="D2LogicalModel:ComparisonOperatorEnum" minOccurs="1" maxOccurs="1" />
2145     <xs:element name="heaviestAxleWeight" type="D2LogicalModel:Tonnes"
2146     minOccurs="1" maxOccurs="1" />
2147     <xs:element name="heaviestAxleWeightCharacteristicExtension"
2148     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2149   </xs:sequence>
2150 </xs:complexType>
2151 <xs:complexType name="HeightCharacteristic">
2152   <xs:sequence>
2153     <xs:element name="comparisonOperator"
2154     type="D2LogicalModel:ComparisonOperatorEnum" minOccurs="1" maxOccurs="1" />
2155     <xs:element name="vehicleHeight" type="D2LogicalModel:MetresAsFloat"
2156     minOccurs="1" maxOccurs="1" />
2157     <xs:element name="heightCharacteristicExtension"
2158     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2159   </xs:sequence>
2160 </xs:complexType>
2161 <xs:simpleType name="HeightGradeEnum">
2162   <xs:restriction base="xs:string">
2163     <xs:enumeration value="aboveGrade" />
2164     <xs:enumeration value="atGrade" />
2165     <xs:enumeration value="belowGrade" />
2166   </xs:restriction>
2167 </xs:simpleType>
2168 <xs:complexType name="Humidity">
2169   <xs:sequence>
2170     <xs:element name="relativeHumidity" type="D2LogicalModel:PercentageValue" />
2171     <xs:element name="humidityExtension" type="D2LogicalModel:_ExtensionType"
2172     minOccurs="0" />
2173   </xs:sequence>

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2150 </xs:complexType>
2151 <xs:complexType name="HumidityInformation">
2152   <xs:complexContent>
2153     <xs:extension base="D2LogicalModel:WeatherData">
2154       <xs:sequence>
2155         <xs:element name="humidity" type="D2LogicalModel:Humidity" />
2156         <xs:element name="humidityInformationExtension"
2157           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2158       </xs:sequence>
2159     </xs:extension>
2160   </xs:complexContent>
2161 </xs:complexType>
2162 <xs:complexType name="Impact">
2163   <xs:sequence>
2164     <xs:element name="capacityRemaining" type="D2LogicalModel:Percentage"
2165       minOccurs="0" maxOccurs="1" />
2166     <xs:element name="numberOfLanesRestricted"
2167       type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
2168     <xs:element name="numberOfOperationalLanes"
2169       type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
2170     <xs:element name="originalNumberOfLanes"
2171       type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
2172     <xs:element name="residualRoadWidth" type="D2LogicalModel:MetresAsFloat"
2173       minOccurs="0" maxOccurs="1" />
2174     <xs:element name="trafficConstrictionType"
2175       type="D2LogicalModel:TrafficConstrictionTypeEnum" minOccurs="0" maxOccurs="1" />
2176     <xs:element name="delays" type="D2LogicalModel:Delays" minOccurs="0" />
2177     <xs:element name="impactExtension" type="D2LogicalModel:_ExtensionType"
2178       minOccurs="0" />
2179   </xs:sequence>
2180 </xs:complexType>
2181 <xs:simpleType name="IndexReference">
2182   <xs:restriction base="D2LogicalModel:String" />
2183 </xs:simpleType>
2184 <xs:complexType name="IndividualCharge">
2185   <xs:sequence>
2186     <xs:element name="chargeBandReference"
2187       type="D2LogicalModel:_ChargeBandVersionedReference" minOccurs="0"
2188       maxOccurs="1" />
2189     <xs:element name="chargePaid" type="D2LogicalModel:AmountOfMoney"
2190       minOccurs="1" maxOccurs="1" />
2191     <xs:element name="chargeCurrency" type="D2LogicalModel:CurrencyEnum"
2192       minOccurs="0" maxOccurs="1" />
2193     <xs:element name="usedMeansOfPayment" type="D2LogicalModel:MeansOfPaymentEnum"
2194       minOccurs="0" maxOccurs="1" />
2195     <xs:element name="withReservation" type="D2LogicalModel:Boolean" minOccurs="0"
2196       maxOccurs="1" />
2197     <xs:element name="usedPaymentCard" type="D2LogicalModel:UsedPaymentCard"
2198       minOccurs="0" />
2199     <xs:element name="individualChargeExtension"
2200       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2201   </xs:sequence>
2202 </xs:complexType>
2203 <xs:complexType name="IndividualVehicleDataValues">
2204   <xs:complexContent>
2205     <xs:extension base="D2LogicalModel:TrafficData">
2206       <xs:sequence>
2207         <xs:element name="individualVehicleSpeed" type="D2LogicalModel:SpeedValue"
2208           minOccurs="0" />
2209         <xs:element name="arrivalTime" type="D2LogicalModel:DateTimeValue"
2210           minOccurs="0" />
2211         <xs:element name="exitTime" type="D2LogicalModel:DateTimeValue"
2212           minOccurs="0" />
2213         <xs:element name="passageDurationTime" type="D2LogicalModel:DurationValue"
2214           minOccurs="0" />
2215         <xs:element name="presenceDurationTime"
2216           type="D2LogicalModel:DurationValue" minOccurs="0" />
2217         <xs:element name="timeGap" type="D2LogicalModel:DurationValue"
2218           minOccurs="0" />
2219         <xs:element name="timeHeadway" type="D2LogicalModel:DurationValue"
2220           minOccurs="0" />
2221         <xs:element name="distanceGap"

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2199         type="D2LogicalModel:FloatingPointMetreDistanceValue" minOccurs="0" />
2200     <xs:element name="distanceHeadway"
2201         type="D2LogicalModel:FloatingPointMetreDistanceValue" minOccurs="0" />
2202     <xs:element name="individualVehicleDataValuesExtension"
2203         type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2204 </xs:sequence>
2205 </xs:extension>
2206 </xs:complexContent>
2207 </xs:complexType>
2208 <xs:simpleType name="InformationStatusEnum">
2209     <xs:restriction base="xs:string">
2210         <xs:enumeration value="real" />
2211         <xs:enumeration value="securityExercise" />
2212         <xs:enumeration value="technicalExercise" />
2213         <xs:enumeration value="test" />
2214     </xs:restriction>
2215 </xs:simpleType>
2216 <xs:complexType name="InfrastructureDamageObstruction">
2217     <xs:complexContent>
2218         <xs:extension base="D2LogicalModel:Obstruction">
2219             <xs:sequence>
2220                 <xs:element name="infrastructureDamageType"
2221                     type="D2LogicalModel:InfrastructureDamageTypeEnum" minOccurs="1"
2222                     maxOccurs="1" />
2223                 <xs:element name="infrastructureDamageObstructionExtension"
2224                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2225             </xs:sequence>
2226         </xs:extension>
2227     </xs:complexContent>
2228 </xs:complexType>
2229 <xs:simpleType name="InfrastructureDamageTypeEnum">
2230     <xs:restriction base="xs:string">
2231         <xs:enumeration value="burstPipe" />
2232         <xs:enumeration value="burstWaterMain" />
2233         <xs:enumeration value="collapsedSewer" />
2234         <xs:enumeration value="damagedBridge" />
2235         <xs:enumeration value="damagedCrashBarrier" />
2236         <xs:enumeration value="damagedFlyover" />
2237         <xs:enumeration value="damagedGallery" />
2238         <xs:enumeration value="damagedGantry" />
2239         <xs:enumeration value="damagedRoadSurface" />
2240         <xs:enumeration value="damagedTunnel" />
2241         <xs:enumeration value="damagedViaduct" />
2242         <xs:enumeration value="fallenPowerCables" />
2243         <xs:enumeration value="gasLeak" />
2244         <xs:enumeration value="weakBridge" />
2245         <xs:enumeration value="other" />
2246     </xs:restriction>
2247 </xs:simpleType>
2248 <xs:simpleType name="InjuryStatusTypeEnum">
2249     <xs:restriction base="xs:string">
2250         <xs:enumeration value="dead" />
2251         <xs:enumeration value="injured" />
2252         <xs:enumeration value="seriouslyInjured" />
2253         <xs:enumeration value="slightlyInjured" />
2254         <xs:enumeration value="uninjured" />
2255         <xs:enumeration value="unknown" />
2256     </xs:restriction>
2257 </xs:simpleType>
2258 <xs:simpleType name="Integer">
2259     <xs:restriction base="xs:integer" />
2260 </xs:simpleType>
2261 <xs:complexType name="IntegerMetreDistanceValue">
2262     <xs:complexContent>
2263         <xs:extension base="D2LogicalModel:DataValue">
2264             <xs:sequence>
2265                 <xs:element name="integerMetreDistance"
2266                     type="D2LogicalModel:MetresAsNonNegativeInteger" minOccurs="1"
2267                     maxOccurs="1" />
2268                 <xs:element name="integerMetreDistanceValueExtension"
2269                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2270             </xs:sequence>
2271         </xs:extension>
2272     </xs:complexContent>
2273 </xs:complexType>

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2262         </xs:extension>
2263     </xs:complexContent>
2264 </xs:complexType>
2265 <xs:simpleType name="IntensityKilogramsPerSquareMetre">
2266     <xs:restriction base="D2LogicalModel:Float" />
2267 </xs:simpleType>
2268 <xs:simpleType name="IntensityMillimetresPerHour">
2269     <xs:restriction base="D2LogicalModel:Float" />
2270 </xs:simpleType>
2271 <xs:complexType name="InternationalIdentifier">
2272     <xs:sequence>
2273         <xs:element name="country" type="D2LogicalModel:CountryEnum" minOccurs="1"
2274             maxOccurs="1" />
2275         <xs:element name="nationalIdentifier" type="D2LogicalModel:String"
2276             minOccurs="1" maxOccurs="1" />
2277         <xs:element name="internationalIdentifierExtension"
2278             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2279     </xs:sequence>
2280 </xs:complexType>
2281 <xs:complexType name="InterUrbanParkingSite">
2282     <xs:complexContent>
2283         <xs:extension base="D2LogicalModel:ParkingSite">
2284             <xs:sequence>
2285                 <xs:element name="interUrbanParkingSiteLocation"
2286                     type="D2LogicalModel:InterUrbanParkingSiteLocationEnum" minOccurs="1"
2287                     maxOccurs="1" />
2288                 <xs:element name="interUrbanParkingSiteExtension"
2289                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2290             </xs:sequence>
2291         </xs:extension>
2292     </xs:complexContent>
2293 </xs:complexType>
2294 <xs:simpleType name="InterUrbanParkingSiteLocationEnum">
2295     <xs:restriction base="xs:string">
2296         <xs:enumeration value="motorway" />
2297         <xs:enumeration value="nearbyMotorway" />
2298         <xs:enumeration value="layBy" />
2299         <xs:enumeration value="onStreet" />
2300         <xs:enumeration value="other" />
2301     </xs:restriction>
2302 </xs:simpleType>
2303 <xs:simpleType name="InvolvementRolesEnum">
2304     <xs:restriction base="xs:string">
2305         <xs:enumeration value="cyclist" />
2306         <xs:enumeration value="pedestrian" />
2307         <xs:enumeration value="unknown" />
2308         <xs:enumeration value="vehicleDriver" />
2309         <xs:enumeration value="vehicleOccupant" />
2310         <xs:enumeration value="vehiclePassenger" />
2311         <xs:enumeration value="witness" />
2312     </xs:restriction>
2313 </xs:simpleType>
2314 <xs:complexType name="Itinerary" abstract="true">
2315     <xs:complexContent>
2316         <xs:extension base="D2LogicalModel:GroupOfLocations">
2317             <xs:sequence>
2318                 <xs:element name="routeDestination" type="D2LogicalModel:Destination"
2319                     minOccurs="0" maxOccurs="unbounded" />
2320                 <xs:element name="itineraryExtension" type="D2LogicalModel:_ExtensionType"
2321                     minOccurs="0" />
2322             </xs:sequence>
2323         </xs:extension>
2324     </xs:complexContent>
2325 </xs:complexType>
2326 <xs:complexType name="ItineraryByIndexedLocations">
2327     <xs:complexContent>
2328         <xs:extension base="D2LogicalModel:Itinerary">
2329             <xs:sequence>
2330                 <xs:element name="locationContainedInItinerary"
2331                     type="D2LogicalModel:_LocationContainedInItinerary" minOccurs="0"
2332                     maxOccurs="unbounded" />
2333                 <xs:element name="itineraryByIndexedLocationsExtension"

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2324         type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2325     </xs:sequence>
2326 </xs:extension>
2327 </xs:complexContent>
2328 </xs:complexType>
2329 <xs:complexType name="ItineraryByReference">
2330     <xs:complexContent>
2331         <xs:extension base="D2LogicalModel:Itinerary">
2332             <xs:sequence>
2333                 <xs:element name="predefinedItineraryReference"
2334                     type="D2LogicalModel:_PredefinedItineraryVersionedReference" minOccurs="1"
2335                     maxOccurs="1" />
2336                 <xs:element name="itineraryByReferenceExtension"
2337                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2338             </xs:sequence>
2339         </xs:extension>
2340     </xs:complexContent>
2341 </xs:complexType>
2342 <xs:complexType name="Junction">
2343     <xs:sequence>
2344         <xs:element name="junctionClassification"
2345             type="D2LogicalModel:JunctionClassificationEnum" minOccurs="0" maxOccurs="1" />
2346         <xs:element name="junctionName" type="D2LogicalModel:MultilingualString"
2347             minOccurs="1" maxOccurs="1" />
2348         <xs:element name="junctionNumber" type="D2LogicalModel:String" minOccurs="0"
2349             maxOccurs="1" />
2350         <xs:element name="motorway" type="D2LogicalModel:Road" minOccurs="0" />
2351         <xs:element name="destinationMotorway" type="D2LogicalModel:Road"
2352             minOccurs="0" maxOccurs="unbounded" />
2353         <xs:element name="junctionExtension" type="D2LogicalModel:_ExtensionType"
2354             minOccurs="0" />
2355     </xs:sequence>
2356 </xs:complexType>
2357 <xs:simpleType name="JunctionClassificationEnum">
2358     <xs:restriction base="xs:string">
2359         <xs:enumeration value="threeWayInterchange" />
2360         <xs:enumeration value="interchange" />
2361         <xs:enumeration value="motorwayConnection" />
2362         <xs:enumeration value="junction" />
2363         <xs:enumeration value="temporaryJunction" />
2364         <xs:enumeration value="borderCrossing" />
2365         <xs:enumeration value="junctionInOneDirection" />
2366         <xs:enumeration value="operationalServiceJunction" />
2367         <xs:enumeration value="other" />
2368     </xs:restriction>
2369 </xs:simpleType>
2370 <xs:complexType name="KilogramsConcentrationValue">
2371     <xs:complexContent>
2372         <xs:extension base="D2LogicalModel:DataValue">
2373             <xs:sequence>
2374                 <xs:element name="kilogramsConcentration"
2375                     type="D2LogicalModel:ConcentrationKilogramsPerCubicMetre" minOccurs="1"
2376                     maxOccurs="1" />
2377                 <xs:element name="kilogramsConcentrationValueExtension"
2378                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2379             </xs:sequence>
2380         </xs:extension>
2381     </xs:complexContent>
2382 </xs:complexType>
2383 <xs:simpleType name="KilometresPerHour">
2384     <xs:restriction base="D2LogicalModel:Float" />
2385 </xs:simpleType>
2386 <xs:simpleType name="LABELSecurityLevelEnum">
2387     <xs:restriction base="xs:string">
2388         <xs:enumeration value="none" />
2389         <xs:enumeration value="securityLevel1" />
2390         <xs:enumeration value="securityLevel2" />
2391         <xs:enumeration value="securityLevel3" />
2392         <xs:enumeration value="securityLevel4" />
2393         <xs:enumeration value="securityLevel5" />
2394         <xs:enumeration value="unknown" />
2395     </xs:restriction>

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2384 </xs:simpleType>
2385 <xs:simpleType name="LABELServiceLevelEnum">
2386   <xs:restriction base="xs:string">
2387     <xs:enumeration value="none" />
2388     <xs:enumeration value="serviceLevel1" />
2389     <xs:enumeration value="serviceLevel2" />
2390     <xs:enumeration value="serviceLevel3" />
2391     <xs:enumeration value="serviceLevel4" />
2392     <xs:enumeration value="serviceLevel5" />
2393     <xs:enumeration value="unknown" />
2394   </xs:restriction>
2395 </xs:simpleType>
2396 <xs:simpleType name="LaneEnum">
2397   <xs:restriction base="xs:string">
2398     <xs:enumeration value="allLanesCompleteCarriageway" />
2399     <xs:enumeration value="busLane" />
2400     <xs:enumeration value="busStop" />
2401     <xs:enumeration value="carPoolLane" />
2402     <xs:enumeration value="centralReservation" />
2403     <xs:enumeration value="crawlerLane" />
2404     <xs:enumeration value="emergencyLane" />
2405     <xs:enumeration value="escapeLane" />
2406     <xs:enumeration value="expressLane" />
2407     <xs:enumeration value="hardShoulder" />
2408     <xs:enumeration value="heavyVehicleLane" />
2409     <xs:enumeration value="lane1" />
2410     <xs:enumeration value="lane2" />
2411     <xs:enumeration value="lane3" />
2412     <xs:enumeration value="lane4" />
2413     <xs:enumeration value="lane5" />
2414     <xs:enumeration value="lane6" />
2415     <xs:enumeration value="lane7" />
2416     <xs:enumeration value="lane8" />
2417     <xs:enumeration value="lane9" />
2418     <xs:enumeration value="layBy" />
2419     <xs:enumeration value="leftHandTurningLane" />
2420     <xs:enumeration value="leftLane" />
2421     <xs:enumeration value="localTrafficLane" />
2422     <xs:enumeration value="middleLane" />
2423     <xs:enumeration value="opposingLanes" />
2424     <xs:enumeration value="overtakingLane" />
2425     <xs:enumeration value="rightHandTurningLane" />
2426     <xs:enumeration value="rightLane" />
2427     <xs:enumeration value="rushHourLane" />
2428     <xs:enumeration value="setDownArea" />
2429     <xs:enumeration value="slowVehicleLane" />
2430     <xs:enumeration value="throughTrafficLane" />
2431     <xs:enumeration value="tidalFlowLane" />
2432     <xs:enumeration value="turningLane" />
2433     <xs:enumeration value="verge" />
2434   </xs:restriction>
2435 </xs:simpleType>
2436 <xs:simpleType name="Language">
2437   <xs:restriction base="xs:language" />
2438 </xs:simpleType>
2439 <xs:complexType name="LengthCharacteristic">
2440   <xs:sequence>
2441     <xs:element name="comparisonOperator"
2442       type="D2LogicalModel:ComparisonOperatorEnum" minOccurs="1" maxOccurs="1" />
2443     <xs:element name="vehicleLength" type="D2LogicalModel:MetresAsFloat"
2444       minOccurs="1" maxOccurs="1" />
2445     <xs:element name="lengthCharacteristicExtension"
2446       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2447   </xs:sequence>
2448 </xs:complexType>
2449 <xs:complexType name="LifeCycleManagement">
2450   <xs:sequence>
2451     <xs:element name="cancel" type="D2LogicalModel:Boolean" minOccurs="0"
2452       maxOccurs="1" />
2453     <xs:element name="end" type="D2LogicalModel:Boolean" minOccurs="0"
2454       maxOccurs="1" />
2455     <xs:element name="lifeCycleManagementExtension"

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        type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2451     </xs:sequence>
2452 </xs:complexType>
2453 <xs:complexType name="Linear">
2454     <xs:complexContent>
2455         <xs:extension base="D2LogicalModel:NetworkLocation">
2456             <xs:sequence>
2457                 <xs:element name="tpegLinearLocation"
2458                     type="D2LogicalModel:TpegLinearLocation" minOccurs="0" />
2459                 <xs:element name="alertCLinear" type="D2LogicalModel:AlertCLinear"
2460                     minOccurs="0" />
2461                 <xs:element name="linearWithinLinearElement"
2462                     type="D2LogicalModel:LinearWithinLinearElement" minOccurs="0" />
2463                 <xs:element name="linearExtension"
2464                     type="D2LogicalModel:_LinearExtensionType" minOccurs="0" />
2465             </xs:sequence>
2466         </xs:extension>
2467     </xs:complexContent>
2468 </xs:complexType>
2469 <xs:complexType name="LinearElement">
2470     <xs:sequence>
2471         <xs:element name="roadName" type="D2LogicalModel:MultilingualString"
2472             minOccurs="0" maxOccurs="1" />
2473         <xs:element name="roadNumber" type="D2LogicalModel:String" minOccurs="0"
2474             maxOccurs="1" />
2475         <xs:element name="linearElementReferenceModel" type="D2LogicalModel:String"
2476             minOccurs="0" maxOccurs="1" />
2477         <xs:element name="linearElementReferenceModelVersion"
2478             type="D2LogicalModel:String" minOccurs="0" maxOccurs="1" />
2479         <xs:element name="linearElementNature"
2480             type="D2LogicalModel:LinearElementNatureEnum" minOccurs="0" maxOccurs="1" />
2481         <xs:element name="linearElementExtension" type="D2LogicalModel:_ExtensionType"
2482             minOccurs="0" />
2483     </xs:sequence>
2484 </xs:complexType>
2485 <xs:complexType name="LinearElementByCode">
2486     <xs:complexContent>
2487         <xs:extension base="D2LogicalModel:LinearElement">
2488             <xs:sequence>
2489                 <xs:element name="linearElementIdentifier" type="D2LogicalModel:String"
2490                     minOccurs="1" maxOccurs="1" />
2491                 <xs:element name="linearElementByCodeExtension"
2492                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2493             </xs:sequence>
2494         </xs:extension>
2495     </xs:complexContent>
2496 </xs:complexType>
2497 <xs:complexType name="LinearElementByPoints">
2498     <xs:complexContent>
2499         <xs:extension base="D2LogicalModel:LinearElement">
2500             <xs:sequence>
2501                 <xs:element name="startPointOfLinearElement"
2502                     type="D2LogicalModel:Referent" />
2503                 <xs:element name="intermediatePointOnLinearElement"
2504                     type="D2LogicalModel:_IntermediatePointOnLinearElement" minOccurs="0"
2505                     maxOccurs="unbounded" />
2506                 <xs:element name="endPointOfLinearElement" type="D2LogicalModel:Referent" />
2507                 <xs:element name="linearElementByPointsExtension"
2508                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2509             </xs:sequence>
2510         </xs:extension>
2511     </xs:complexContent>
2512 </xs:complexType>
2513 <xs:simpleType name="LinearElementNatureEnum">
2514     <xs:restriction base="xs:string">
2515         <xs:enumeration value="road" />
2516         <xs:enumeration value="roadSection" />
2517         <xs:enumeration value="slipRoad" />
2518         <xs:enumeration value="other" />
2519     </xs:restriction>
2520 </xs:simpleType>
2521 <xs:simpleType name="LinearReferencingDirectionEnum">

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2506     <xs:restriction base="xs:string">
2507         <xs:enumeration value="both" />
2508         <xs:enumeration value="opposite" />
2509         <xs:enumeration value="aligned" />
2510         <xs:enumeration value="unknown" />
2511     </xs:restriction>
2512 </xs:simpleType>
2513 <xs:complexType name="LinearTrafficView">
2514     <xs:sequence>
2515         <xs:element name="linearPredefinedLocationReference"
2516             type="D2LogicalModel:_PredefinedLocationVersionedReference" minOccurs="1"
2517             maxOccurs="1" />
2518         <xs:element name="trafficViewRecord" type="D2LogicalModel:TrafficViewRecord"
2519             maxOccurs="unbounded" />
2520         <xs:element name="linearTrafficViewExtension"
2521             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2522     </xs:sequence>
2523     <xs:attribute name="id" type="xs:string" use="required" />
2524 </xs:complexType>
2525 <xs:complexType name="LinearWithinLinearElement">
2526     <xs:sequence>
2527         <xs:element name="administrativeAreaOfLinearSection"
2528             type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
2529         <xs:element name="directionBoundOnLinearSection"
2530             type="D2LogicalModel:DirectionEnum" minOccurs="0" maxOccurs="1" />
2531         <xs:element name="directionRelativeOnLinearSection"
2532             type="D2LogicalModel:LinearReferencingDirectionEnum" minOccurs="0"
2533             maxOccurs="1" />
2534         <xs:element name="heightGradeOfLinearSection"
2535             type="D2LogicalModel:HeightGradeEnum" minOccurs="0" maxOccurs="1" />
2536         <xs:element name="linearElement" type="D2LogicalModel:LinearElement" />
2537         <xs:element name="fromPoint" type="D2LogicalModel:DistanceAlongLinearElement" />
2538         <xs:element name="toPoint" type="D2LogicalModel:DistanceAlongLinearElement" />
2539         <xs:element name="linearWithinLinearElementExtension"
2540             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2541     </xs:sequence>
2542 </xs:complexType>
2543 <xs:simpleType name="LoadType2Enum">
2544     <xs:restriction base="xs:string">
2545         <xs:enumeration value="refrigeratedGoods" />
2546     </xs:restriction>
2547 </xs:simpleType>
2548 <xs:simpleType name="LoadTypeEnum">
2549     <xs:restriction base="xs:string">
2550         <xs:enumeration value="abnormalLoad" />
2551         <xs:enumeration value="ammunition" />
2552         <xs:enumeration value="chemicals" />
2553         <xs:enumeration value="combustibleMaterials" />
2554         <xs:enumeration value="corrosiveMaterials" />
2555         <xs:enumeration value="debris" />
2556         <xs:enumeration value="empty" />
2557         <xs:enumeration value="explosiveMaterials" />
2558         <xs:enumeration value="extraHighLoad" />
2559         <xs:enumeration value="extraLongLoad" />
2560         <xs:enumeration value="extraWideLoad" />
2561         <xs:enumeration value="fuel" />
2562         <xs:enumeration value="glass" />
2563         <xs:enumeration value="goods" />
2564         <xs:enumeration value="hazardousMaterials" />
2565         <xs:enumeration value="liquid" />
2566         <xs:enumeration value="livestock" />
2567         <xs:enumeration value="materials" />
2568         <xs:enumeration value="materialsDangerousForPeople" />
2569         <xs:enumeration value="materialsDangerousForTheEnvironment" />
2570         <xs:enumeration value="materialsDangerousForWater" />
2571         <xs:enumeration value="oil" />
2572         <xs:enumeration value="ordinary" />
2573         <xs:enumeration value="perishableProducts" />
2574         <xs:enumeration value="petrol" />
2575         <xs:enumeration value="pharmaceuticalMaterials" />
2576         <xs:enumeration value="radioactiveMaterials" />
2577         <xs:enumeration value="refuse" />

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2568     <xs:enumeration value="toxicMaterials" />
2569     <xs:enumeration value="vehicles" />
2570     <xs:enumeration value="other" />
2571 </xs:restriction>
2572 </xs:simpleType>
2573 <xs:complexType name="Location" abstract="true">
2574   <xs:complexContent>
2575     <xs:extension base="D2LogicalModel:GroupOfLocations">
2576       <xs:sequence>
2577         <xs:element name="externalReferencing"
2578           type="D2LogicalModel:ExternalReferencing" minOccurs="0"
2579           maxOccurs="unbounded" />
2580         <xs:element name="locationForDisplay"
2581           type="D2LogicalModel:PointCoordinates" minOccurs="0" />
2582         <xs:element name="locationExtension" type="D2LogicalModel:_ExtensionType"
2583           minOccurs="0" />
2584       </xs:sequence>
2585     </xs:extension>
2586   </xs:complexContent>
2587 </xs:complexType>
2588 <xs:complexType name="LocationByReference">
2589   <xs:complexContent>
2590     <xs:extension base="D2LogicalModel:Location">
2591       <xs:sequence>
2592         <xs:element name="predefinedLocationReference"
2593           type="D2LogicalModel:_PredefinedLocationVersionedReference" minOccurs="1"
2594           maxOccurs="1" />
2595         <xs:element name="locationByReferenceExtension"
2596           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2597       </xs:sequence>
2598     </xs:extension>
2599   </xs:complexContent>
2600 </xs:complexType>
2601 <xs:complexType name="LocationCharacteristicsOverride">
2602   <xs:sequence>
2603     <xs:element name="measurementLanesOverride" type="D2LogicalModel:LaneEnum"
2604       minOccurs="0" maxOccurs="1" />
2605     <xs:element name="reversedFlow" type="D2LogicalModel:Boolean" minOccurs="0"
2606       maxOccurs="1" />
2607     <xs:element name="locationCharacteristicsOverrideExtension"
2608       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2609   </xs:sequence>
2610 </xs:complexType>
2611 <xs:simpleType name="LocationDescriptorEnum">
2612   <xs:restriction base="xs:string">
2613     <xs:enumeration value="aroundABendInRoad" />
2614     <xs:enumeration value="atMotorwayInterchange" />
2615     <xs:enumeration value="atRestArea" />
2616     <xs:enumeration value="atServiceArea" />
2617     <xs:enumeration value="atTollPlaza" />
2618     <xs:enumeration value="atTunnelEntryOrExit" />
2619     <xs:enumeration value="inbound" />
2620     <xs:enumeration value="inGallery" />
2621     <xs:enumeration value="inTheCentre" />
2622     <xs:enumeration value="inTheOppositeDirection" />
2623     <xs:enumeration value="inTunnel" />
2624     <xs:enumeration value="onBorder" />
2625     <xs:enumeration value="onBridge" />
2626     <xs:enumeration value="onConnector" />
2627     <xs:enumeration value="onElevatedSection" />
2628     <xs:enumeration value="onFlyover" />
2629     <xs:enumeration value="onIceRoad" />
2630     <xs:enumeration value="onLevelCrossing" />
2631     <xs:enumeration value="onLinkRoad" />
2632     <xs:enumeration value="onPass" />
2633     <xs:enumeration value="onRoundabout" />
2634     <xs:enumeration value="onTheLeft" />
2635     <xs:enumeration value="onTheRight" />
2636     <xs:enumeration value="onTheRoadway" />
2637     <xs:enumeration value="onUndergroundSection" />
2638     <xs:enumeration value="onUnderpass" />
2639     <xs:enumeration value="outbound" />

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2630         <xs:enumeration value="overCrestOfHill" />
2631         <xs:enumeration value="withinJunction" />
2632     </xs:restriction>
2633 </xs:simpleType>
2634 <xs:simpleType name="MaintenanceVehicleActionsEnum">
2635     <xs:restriction base="xs:string">
2636         <xs:enumeration value="maintenanceVehiclesMergingIntoTrafficFlow" />
2637         <xs:enumeration value="saltAndGritSpreading" />
2638         <xs:enumeration value="slowMoving" />
2639         <xs:enumeration value="snowClearing" />
2640         <xs:enumeration value="stoppingToServiceEquipments" />
2641     </xs:restriction>
2642 </xs:simpleType>
2643 <xs:complexType name="MaintenanceVehicles">
2644     <xs:sequence>
2645         <xs:element name="numberOfMaintenanceVehicles"
2646             type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
2647         <xs:element name="maintenanceVehicleActions"
2648             type="D2LogicalModel:MaintenanceVehicleActionsEnum" minOccurs="0"
2649             maxOccurs="unbounded" />
2650         <xs:element name="maintenanceVehiclesExtension"
2651             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2652     </xs:sequence>
2653 </xs:complexType>
2654 <xs:complexType name="MaintenanceWorks">
2655     <xs:complexContent>
2656         <xs:extension base="D2LogicalModel:Roadworks">
2657             <xs:sequence>
2658                 <xs:element name="roadMaintenanceType"
2659                     type="D2LogicalModel:RoadMaintenanceTypeEnum" minOccurs="1"
2660                     maxOccurs="unbounded" />
2661                 <xs:element name="maintenanceWorksExtension"
2662                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2663             </xs:sequence>
2664         </xs:extension>
2665     </xs:complexContent>
2666 </xs:complexType>
2667 <xs:complexType name="ManagedCause">
2668     <xs:complexContent>
2669         <xs:extension base="D2LogicalModel:Cause">
2670             <xs:sequence>
2671                 <xs:element name="managedCause"
2672                     type="D2LogicalModel:_SituationRecordVersionedReference" minOccurs="0"
2673                     maxOccurs="1" />
2674                 <xs:element name="managedCauseExtension"
2675                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2676             </xs:sequence>
2677         </xs:extension>
2678     </xs:complexContent>
2679 </xs:complexType>
2680 <xs:complexType name="Management">
2681     <xs:sequence>
2682         <xs:element name="lifeCycleManagement"
2683             type="D2LogicalModel:LifeCycleManagement" minOccurs="0" />
2684         <xs:element name="filterExitManagement"
2685             type="D2LogicalModel:FilterExitManagement" minOccurs="0" />
2686         <xs:element name="managementExtension" type="D2LogicalModel:_ExtensionType"
2687             minOccurs="0" />
2688     </xs:sequence>
2689 </xs:complexType>
2690 <xs:simpleType name="MeansOfPaymentEnum">
2691     <xs:restriction base="xs:string">
2692         <xs:enumeration value="paymentCard" />
2693         <xs:enumeration value="cash" />
2694         <xs:enumeration value="cashCoinsOnly" />
2695         <xs:enumeration value="directCashTransfer" />
2696         <xs:enumeration value="electronicSettlement" />
2697         <xs:enumeration value="rfid" />
2698         <xs:enumeration value="mobileApp" />
2699         <xs:enumeration value="payBySMS" />
2700         <xs:enumeration value="mobilePhone" />
2701         <xs:enumeration value="unknown" />

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2689     <xs:enumeration value="other" />
2690   </xs:restriction>
2691 </xs:simpleType>
2692 <xs:complexType name="MeasuredDataPublication">
2693   <xs:complexContent>
2694     <xs:extension base="D2LogicalModel:PayloadPublication">
2695       <xs:sequence>
2696         <xs:element name="measurementSiteTableReference"
2697           type="D2LogicalModel:_MeasurementSiteTableVersionedReference"
2698           minOccurs="1" maxOccurs="1" />
2699         <xs:element name="headerInformation"
2700           type="D2LogicalModel:HeaderInformation" />
2701         <xs:element name="siteMeasurements" type="D2LogicalModel:SiteMeasurements"
2702           maxOccurs="unbounded" />
2703         <xs:element name="measuredDataPublicationExtension"
2704           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2705       </xs:sequence>
2706     </xs:extension>
2707   </xs:complexContent>
2708 </xs:complexType>
2709 <xs:simpleType name="MeasuredOrDerivedDataTypeEnum">
2710   <xs:restriction base="xs:string">
2711     <xs:enumeration value="humidityInformation" />
2712     <xs:enumeration value="individualVehicleMeasurements" />
2713     <xs:enumeration value="pollutionInformation" />
2714     <xs:enumeration value="precipitationInformation" />
2715     <xs:enumeration value="pressureInformation" />
2716     <xs:enumeration value="radiationInformation" />
2717     <xs:enumeration value="roadSurfaceConditionInformation" />
2718     <xs:enumeration value="temperatureInformation" />
2719     <xs:enumeration value="trafficConcentration" />
2720     <xs:enumeration value="trafficFlow" />
2721     <xs:enumeration value="trafficHeadway" />
2722     <xs:enumeration value="trafficSpeed" />
2723     <xs:enumeration value="trafficStatusInformation" />
2724     <xs:enumeration value="travelTimeInformation" />
2725     <xs:enumeration value="visibilityInformation" />
2726     <xs:enumeration value="windInformation" />
2727   </xs:restriction>
2728 </xs:simpleType>
2729 <xs:complexType name="MeasuredValue">
2730   <xs:sequence>
2731     <xs:element name="measurementEquipmentTypeUsed"
2732       type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
2733     <xs:element name="locationCharacteristicsOverride"
2734       type="D2LogicalModel:LocationCharacteristicsOverride" minOccurs="0" />
2735     <xs:element name="measurementEquipmentFault"
2736       type="D2LogicalModel:MeasurementEquipmentFault" minOccurs="0"
2737       maxOccurs="unbounded" />
2738     <xs:element name="basicData" type="D2LogicalModel:BasicData" minOccurs="0" />
2739     <xs:element name="measuredValueExtension" type="D2LogicalModel:_ExtensionType"
2740       minOccurs="0" />
2741   </xs:sequence>
2742 </xs:complexType>
2743 <xs:complexType name="MeasurementEquipmentFault">
2744   <xs:complexContent>
2745     <xs:extension base="D2LogicalModel:Fault">
2746       <xs:sequence>
2747         <xs:element name="measurementEquipmentFault"
2748           type="D2LogicalModel:MeasurementEquipmentFaultEnum" minOccurs="1"
2749           maxOccurs="1" />
2750         <xs:element name="measurementEquipmentFaultExtension"
2751           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2752       </xs:sequence>
2753     </xs:extension>
2754   </xs:complexContent>
2755 </xs:complexType>
2756 <xs:simpleType name="MeasurementEquipmentFaultEnum">
2757   <xs:restriction base="xs:string">
2758     <xs:enumeration value="intermittentDataValues" />
2759     <xs:enumeration value="noDataValuesAvailable" />
2760     <xs:enumeration value="spuriousUnreliableDataValues" />

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2748     <xs:enumeration value="unspecifiedOrUnknownFault" />
2749     <xs:enumeration value="other" />
2750   </xs:restriction>
2751 </xs:simpleType>
2752 <xs:complexType name="MeasurementSiteRecord">
2753   <xs:sequence>
2754     <xs:element name="measurementSiteRecordVersionTime"
2755       type="D2LogicalModel:DateTime" minOccurs="0" maxOccurs="1" />
2756     <xs:element name="computationMethod"
2757       type="D2LogicalModel:ComputationMethodEnum" minOccurs="0" maxOccurs="1" />
2758     <xs:element name="measurementEquipmentReference" type="D2LogicalModel:String"
2759       minOccurs="0" maxOccurs="1" />
2760     <xs:element name="measurementEquipmentTypeUsed"
2761       type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
2762     <xs:element name="measurementSiteName"
2763       type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
2764     <xs:element name="measurementSiteNumberOfLanes"
2765       type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
2766     <xs:element name="measurementSiteIdentification" type="D2LogicalModel:String"
2767       minOccurs="0" maxOccurs="1" />
2768     <xs:element name="measurementSide" type="D2LogicalModel:DirectionEnum"
2769       minOccurs="0" maxOccurs="1" />
2770     <xs:element name="measurementSpecificCharacteristics"
2771       type="D2LogicalModel:_MeasurementSiteRecordIndexMeasurementSpecificCharacteristics"
2772       minOccurs="0" maxOccurs="unbounded" />
2773     <xs:element name="measurementSiteLocation"
2774       type="D2LogicalModel:GroupOfLocations" />
2775     <xs:element name="measurementSiteRecordExtension"
2776       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2777   </xs:sequence>
2778   <xs:attribute name="id" type="xs:string" use="required" />
2779   <xs:attribute name="version" type="xs:string" use="required" />
2780 </xs:complexType>
2781 <xs:complexType name="MeasurementSiteTable">
2782   <xs:sequence>
2783     <xs:element name="measurementSiteTableIdentification"
2784       type="D2LogicalModel:String" minOccurs="0" maxOccurs="1" />
2785     <xs:element name="measurementSiteRecord"
2786       type="D2LogicalModel:MeasurementSiteRecord" maxOccurs="unbounded" />
2787     <xs:element name="measurementSiteTableExtension"
2788       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2789   </xs:sequence>
2790   <xs:attribute name="id" type="xs:string" use="required" />
2791   <xs:attribute name="version" type="xs:string" use="required" />
2792 </xs:complexType>
2793 <xs:complexType name="MeasurementSiteTablePublication">
2794   <xs:complexContent>
2795     <xs:extension base="D2LogicalModel:PayloadPublication">
2796       <xs:sequence>
2797         <xs:element name="headerInformation"
2798           type="D2LogicalModel:HeaderInformation" />
2799         <xs:element name="measurementSiteTable"
2800           type="D2LogicalModel:MeasurementSiteTable" maxOccurs="unbounded" />
2801         <xs:element name="measurementSiteTablePublicationExtension"
2802           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2803       </xs:sequence>
2804     </xs:extension>
2805   </xs:complexContent>
2806 </xs:complexType>
2807 <xs:complexType name="MeasurementSpecificCharacteristics">
2808   <xs:sequence>
2809     <xs:element name="accuracy" type="D2LogicalModel:Percentage" minOccurs="0"
2810       maxOccurs="1" />
2811     <xs:element name="period" type="D2LogicalModel:Seconds" minOccurs="0"
2812       maxOccurs="1" />
2813     <xs:element name="smoothingFactor" type="D2LogicalModel:Float" minOccurs="0"
2814       maxOccurs="1" />
2815     <xs:element name="specificLane" type="D2LogicalModel:LaneEnum" minOccurs="0"
2816       maxOccurs="1" />
2817     <xs:element name="specificMeasurementValueType"
2818       type="D2LogicalModel:MeasuredOrDerivedDataTypeEnum" minOccurs="1"
2819       maxOccurs="1" />

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2796     <xs:element name="specificVehicleCharacteristics"
2797         type="D2LogicalModel:VehicleCharacteristics" minOccurs="0" />
2798     <xs:element name="measurementSpecificCharacteristicsExtension"
2799         type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2800 </xs:sequence>
2801 </xs:complexType>
2802 <xs:simpleType name="MetresAsFloat">
2803     <xs:restriction base="D2LogicalModel:Float" />
2804 </xs:simpleType>
2805 <xs:simpleType name="MetresAsNonNegativeInteger">
2806     <xs:restriction base="D2LogicalModel:NonNegativeInteger" />
2807 </xs:simpleType>
2808 <xs:complexType name="MicrogramsConcentrationValue">
2809     <xs:complexContent>
2810         <xs:extension base="D2LogicalModel:DataValue">
2811             <xs:sequence>
2812                 <xs:element name="microgramsConcentration"
2813                     type="D2LogicalModel:ConcentrationMicrogramsPerCubicMetre" minOccurs="1"
2814                     maxOccurs="1" />
2815                 <xs:element name="microgramsConcentrationValueExtension"
2816                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2817             </xs:sequence>
2818         </xs:extension>
2819     </xs:complexContent>
2820 </xs:complexType>
2821 <xs:complexType name="Mobility">
2822     <xs:sequence>
2823         <xs:element name="mobilityType" type="D2LogicalModel:MobilityEnum"
2824             minOccurs="1" maxOccurs="1" />
2825         <xs:element name="mobilityExtension" type="D2LogicalModel:_ExtensionType"
2826             minOccurs="0" />
2827     </xs:sequence>
2828 </xs:complexType>
2829 <xs:simpleType name="MobilityEnum">
2830     <xs:restriction base="xs:string">
2831         <xs:enumeration value="mobile" />
2832         <xs:enumeration value="stationary" />
2833         <xs:enumeration value="unknown" />
2834     </xs:restriction>
2835 </xs:simpleType>
2836 <xs:simpleType name="MonthOfYearEnum">
2837     <xs:restriction base="xs:string">
2838         <xs:enumeration value="january" />
2839         <xs:enumeration value="february" />
2840         <xs:enumeration value="march" />
2841         <xs:enumeration value="april" />
2842         <xs:enumeration value="may" />
2843         <xs:enumeration value="june" />
2844         <xs:enumeration value="july" />
2845         <xs:enumeration value="august" />
2846         <xs:enumeration value="september" />
2847         <xs:enumeration value="october" />
2848         <xs:enumeration value="november" />
2849         <xs:enumeration value="december" />
2850     </xs:restriction>
2851 </xs:simpleType>
2852 <xs:complexType name="MultilingualString">
2853     <xs:sequence>
2854         <xs:element name="values">
2855             <xs:complexType>
2856                 <xs:sequence>
2857                     <xs:element name="value" type="D2LogicalModel:MultilingualStringValue"
2858                         maxOccurs="unbounded" />
2859                 </xs:sequence>
2860             </xs:complexType>
2861         </xs:element>
2862     </xs:sequence>
2863 </xs:complexType>
2864 <xs:complexType name="MultilingualStringValue">
2865     <xs:simpleContent>
2866         <xs:extension base="D2LogicalModel:MultilingualStringValueType">
2867             <xs:attribute name="lang" type="xs:language" />

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2860     </xs:extension>
2861   </xs:simpleContent>
2862 </xs:complexType>
2863 <xs:simpleType name="MultilingualStringValue">
2864   <xs:restriction base="xs:string">
2865     <xs:maxLength value="1024" />
2866   </xs:restriction>
2867 </xs:simpleType>
2868 <xs:complexType name="NamedArea">
2869   <xs:sequence>
2870     <xs:element name="country" type="D2LogicalModel:CountryEnum" minOccurs="0"
2871       maxOccurs="1" />
2872     <xs:element name="nation" type="D2LogicalModel:MultilingualString"
2873       minOccurs="0" maxOccurs="1" />
2874     <xs:element name="county" type="D2LogicalModel:MultilingualString"
2875       minOccurs="0" maxOccurs="1" />
2876     <xs:element name="areaName" type="D2LogicalModel:MultilingualString"
2877       minOccurs="0" maxOccurs="1" />
2878     <xs:element name="policeForceControlArea"
2879       type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
2880     <xs:element name="roadOperatorControlArea"
2881       type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
2882     <xs:element name="namedAreaExtension" type="D2LogicalModel:_ExtensionType"
2883       minOccurs="0" />
2884   </xs:sequence>
2885 </xs:complexType>
2886 <xs:complexType name="NetworkLocation" abstract="true">
2887   <xs:complexContent>
2888     <xs:extension base="D2LogicalModel:Location">
2889       <xs:sequence>
2890         <xs:element name="supplementaryPositionalDescription"
2891           type="D2LogicalModel:SupplementaryPositionalDescription" minOccurs="0" />
2892         <xs:element name="destination" type="D2LogicalModel:Destination"
2893           minOccurs="0" />
2894         <xs:element name="networkLocationExtension"
2895           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2896       </xs:sequence>
2897     </xs:extension>
2898   </xs:complexContent>
2899 </xs:complexType>
2900 <xs:complexType name="NetworkManagement" abstract="true">
2901   <xs:complexContent>
2902     <xs:extension base="D2LogicalModel:OperatorAction">
2903       <xs:sequence>
2904         <xs:element name="complianceOption"
2905           type="D2LogicalModel:ComplianceOptionEnum" minOccurs="1" maxOccurs="1" />
2906         <xs:element name="applicableForTrafficDirection"
2907           type="D2LogicalModel:DirectionEnum" minOccurs="0" maxOccurs="unbounded" />
2908         <xs:element name="applicableForTrafficType"
2909           type="D2LogicalModel:TrafficTypeEnum" minOccurs="0" maxOccurs="unbounded" />
2910         <xs:element name="placesAtWhichApplicable"
2911           type="D2LogicalModel:PlacesEnum" minOccurs="0" maxOccurs="unbounded" />
2912         <xs:element name="automaticallyInitiated" type="D2LogicalModel:Boolean"
2913           minOccurs="0" maxOccurs="1" />
2914         <xs:element name="forVehiclesWithCharacteristicsOf"
2915           type="D2LogicalModel:VehicleCharacteristics" minOccurs="0"
2916           maxOccurs="unbounded" />
2917         <xs:element name="networkManagementExtension"
2918           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2919       </xs:sequence>
2920     </xs:extension>
2921   </xs:complexContent>
2922 </xs:complexType>
2923 <xs:complexType name="NonManagedCause">
2924   <xs:complexContent>
2925     <xs:extension base="D2LogicalModel:Cause">
2926       <xs:sequence>
2927         <xs:element name="causeDescription"
2928           type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
2929         <xs:element name="causeType" type="D2LogicalModel:CauseTypeEnum"
2930           minOccurs="0" maxOccurs="1" />
2931         <xs:element name="nonManagedCauseExtension"

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2912         type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2913     </xs:sequence>
2914 </xs:extension>
2915 </xs:complexContent>
2916 </xs:complexType>
2917 <xs:simpleType name="NonNegativeInteger">
2918     <xs:restriction base="xs:nonNegativeInteger" />
2919 </xs:simpleType>
2920 <xs:complexType name="NonOrderedLocationGroupByList">
2921     <xs:complexContent>
2922         <xs:sequence>
2923             <xs:element name="locationContainedInGroup" type="D2LogicalModel:Location"
2924                 minOccurs="2" maxOccurs="unbounded" />
2925             <xs:element name="nonOrderedLocationGroupByListExtension"
2926                 type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2927         </xs:sequence>
2928     </xs:extension>
2929 </xs:complexContent>
2930 </xs:complexType>
2931 <xs:complexType name="NonOrderedLocationGroupByReference">
2932     <xs:complexContent>
2933         <xs:extension base="D2LogicalModel:NonOrderedLocations">
2934             <xs:sequence>
2935                 <xs:element name="predefinedNonOrderedLocationGroupReference"
2936                     type="D2LogicalModel:_PredefinedNonOrderedLocationGroupVersionedReference"
2937                     minOccurs="1" maxOccurs="1" />
2938                 <xs:element name="nonOrderedLocationGroupByReferenceExtension"
2939                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2940             </xs:sequence>
2941         </xs:extension>
2942     </xs:complexContent>
2943 </xs:complexType>
2944 <xs:complexType name="NonOrderedLocations" abstract="true">
2945     <xs:complexContent>
2946         <xs:extension base="D2LogicalModel:GroupOfLocations">
2947             <xs:sequence>
2948                 <xs:element name="nonOrderedLocationsExtension"
2949                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2950             </xs:sequence>
2951         </xs:extension>
2952     </xs:complexContent>
2953 </xs:complexType>
2954 <xs:complexType name="NonRoadEventInformation" abstract="true">
2955     <xs:complexContent>
2956         <xs:extension base="D2LogicalModel:SituationRecord">
2957             <xs:sequence>
2958                 <xs:element name="nonRoadEventInformationExtension"
2959                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2960             </xs:sequence>
2961         </xs:extension>
2962     </xs:complexContent>
2963 </xs:complexType>
2964 <xs:complexType name="NonWeatherRelatedRoadConditions">
2965     <xs:complexContent>
2966         <xs:extension base="D2LogicalModel:RoadConditions">
2967             <xs:sequence>
2968                 <xs:element name="nonWeatherRelatedRoadConditionType"
2969                     type="D2LogicalModel:NonWeatherRelatedRoadConditionTypeEnum" minOccurs="1"
2970                     maxOccurs="unbounded" />
2971                 <xs:element name="nonWeatherRelatedRoadConditionsExtension"
2972                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2973             </xs:sequence>
2974         </xs:extension>
2975     </xs:complexContent>
2976 </xs:complexType>
2977 <xs:simpleType name="NonWeatherRelatedRoadConditionTypeEnum">
2978     <xs:restriction base="xs:string">
2979         <xs:enumeration value="dieselOnRoad" />
2980         <xs:enumeration value="leavesOnRoad" />
2981         <xs:enumeration value="looseChippings" />
2982         <xs:enumeration value="looseSandOnRoad" />

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2973     <xs:enumeration value="mudOnRoad" />
2974     <xs:enumeration value="oilOnRoad" />
2975     <xs:enumeration value="petrolOnRoad" />
2976     <xs:enumeration value="roadSurfaceInPoorCondition" />
2977     <xs:enumeration value="slipperyRoad" />
2978     <xs:enumeration value="other" />
2979 </xs:restriction>
2980 </xs:simpleType>
2981 <xs:complexType name="NumberOfAxlesCharacteristic">
2982     <xs:sequence>
2983         <xs:element name="comparisonOperator"
2984             type="D2LogicalModel:ComparisonOperatorEnum" minOccurs="1" maxOccurs="1" />
2985         <xs:element name="numberOfAxles" type="D2LogicalModel:NonNegativeInteger"
2986             minOccurs="1" maxOccurs="1" />
2987         <xs:element name="numberOfAxlesCharacteristicExtension"
2988             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
2989     </xs:sequence>
2990 </xs:complexType>
2991 <xs:complexType name="Obstruction" abstract="true">
2992     <xs:complexContent>
2993         <xs:extension base="D2LogicalModel:TrafficElement">
2994             <xs:sequence>
2995                 <xs:element name="numberOfObstructions"
2996                     type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
2997                 <xs:element name="mobilityOfObstruction" type="D2LogicalModel:Mobility"
2998                     minOccurs="0" />
2999                 <xs:element name="obstructionExtension"
3000                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3001             </xs:sequence>
3002         </xs:extension>
3003     </xs:complexContent>
3004 </xs:complexType>
3005 <xs:simpleType name="ObstructionTypeEnum">
3006     <xs:restriction base="xs:string">
3007         <xs:enumeration value="airCrash" />
3008         <xs:enumeration value="childrenOnRoadway" />
3009         <xs:enumeration value="clearanceWork" />
3010         <xs:enumeration value="craneOperating" />
3011         <xs:enumeration value="cyclistsOnRoadway" />
3012         <xs:enumeration value="debris" />
3013         <xs:enumeration value="explosion" />
3014         <xs:enumeration value="explosionHazard" />
3015         <xs:enumeration value="hazardsOnTheRoad" />
3016         <xs:enumeration value="highSpeedChase" />
3017         <xs:enumeration value="houseFire" />
3018         <xs:enumeration value="incident" />
3019         <xs:enumeration value="industrialAccident" />
3020         <xs:enumeration value="objectOnTheRoad" />
3021         <xs:enumeration value="objectsFallingFromMovingVehicle" />
3022         <xs:enumeration value="obstructionOnTheRoad" />
3023         <xs:enumeration value="peopleOnRoadway" />
3024         <xs:enumeration value="railCrash" />
3025         <xs:enumeration value="recklessDriver" />
3026         <xs:enumeration value="rescueAndRecoveryWork" />
3027         <xs:enumeration value="severeFrostDamagedRoadway" />
3028         <xs:enumeration value="shedLoad" />
3029         <xs:enumeration value="snowAndIceDebris" />
3030         <xs:enumeration value="spillageOccurringFromMovingVehicle" />
3031         <xs:enumeration value="spillageOnTheRoad" />
3032         <xs:enumeration value="unprotectedAccidentArea" />
3033         <xs:enumeration value="other" />
3034     </xs:restriction>
3035 </xs:simpleType>
3036 <xs:complexType name="OccupancyChangeValue">
3037     <xs:complexContent>
3038         <xs:extension base="D2LogicalModel:DataValue">
3039             <xs:sequence>
3040                 <xs:element name="occupancyChange" type="D2LogicalModel:Integer"
3041                     minOccurs="1" maxOccurs="1" />
3042                 <xs:element name="occupancyChangeValueExtension"
3043                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3044             </xs:sequence>

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3037     </xs:extension>
3038   </xs:complexContent>
3039 </xs:complexType>
3040 <xs:simpleType name="OccupancyDetectionTypeEnum">
3041   <xs:restriction base="xs:string">
3042     <xs:enumeration value="none" />
3043     <xs:enumeration value="balancing" />
3044     <xs:enumeration value="singleSpaceDetection" />
3045     <xs:enumeration value="modelBased" />
3046     <xs:enumeration value="manual" />
3047     <xs:enumeration value="unspecified" />
3048     <xs:enumeration value="other" />
3049     <xs:enumeration value="unknown" />
3050   </xs:restriction>
3051 </xs:simpleType>
3052 <xs:complexType name="OffsetDistance">
3053   <xs:sequence>
3054     <xs:element name="offsetDistance"
3055       type="D2LogicalModel:MetresAsNonNegativeInteger" minOccurs="1" maxOccurs="1" />
3056     <xs:element name="offsetDistanceExtension"
3057       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3058   </xs:sequence>
3059 </xs:complexType>
3060 <xs:simpleType name="OpeningStatusEnum">
3061   <xs:restriction base="xs:string">
3062     <xs:enumeration value="open" />
3063     <xs:enumeration value="closed" />
3064     <xs:enumeration value="closedAbnormal" />
3065     <xs:enumeration value="openingTimesInForce" />
3066     <xs:enumeration value="statusUnknown" />
3067     <xs:enumeration value="other" />
3068   </xs:restriction>
3069 </xs:simpleType>
3070 <xs:complexType name="OpeningTimes">
3071   <xs:sequence>
3072     <xs:element name="lastUpdated" type="D2LogicalModel:DateTime" minOccurs="0"
3073       maxOccurs="1" />
3074     <xs:element name="openAllYear" type="D2LogicalModel:Boolean" minOccurs="0"
3075       maxOccurs="1" />
3076     <xs:element name="available24hours" type="D2LogicalModel:Boolean"
3077       minOccurs="0" maxOccurs="1" />
3078     <xs:element name="urlLinkAddress" type="D2LogicalModel:Url" minOccurs="0"
3079       maxOccurs="1" />
3080     <xs:element name="openingTimesUnknown" type="D2LogicalModel:Boolean"
3081       minOccurs="0" maxOccurs="1" />
3082     <xs:element name="openingTimesNotSpecified" type="D2LogicalModel:Boolean"
3083       minOccurs="0" maxOccurs="1" />
3084     <xs:element name="validity" type="D2LogicalModel:Validity" minOccurs="0" />
3085     <xs:element name="openingTimesExtension" type="D2LogicalModel:_ExtensionType"
3086       minOccurs="0" />
3087   </xs:sequence>
3088 </xs:complexType>
3089 <xs:complexType name="OpenlrAreaLocationReference">
3090   <xs:sequence>
3091     <xs:element name="openlrAreaLocationReferenceExtension"
3092       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3093   </xs:sequence>
3094 </xs:complexType>
3095 <xs:complexType name="OpenlrBaseLocationReferencePoint" abstract="true">
3096   <xs:sequence>
3097     <xs:element name="openlrCoordinate" type="D2LogicalModel:PointCoordinates" />
3098     <xs:element name="openlrLineAttributes"
3099       type="D2LogicalModel:OpenlrLineAttributes" />
3100     <xs:element name="openlrBaseLocationReferencePointExtension"
3101       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3102   </xs:sequence>
3103 </xs:complexType>
3104 <xs:complexType name="OpenlrBasePointLocation" abstract="true">
3105   <xs:sequence>
3106     <xs:element name="openlrSideOfRoad" type="D2LogicalModel:OpenlrSideOfRoadEnum"
3107       minOccurs="1" maxOccurs="1" />
3108     <xs:element name="openlrOrientation"

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3096         type="D2LogicalModel:OpenlrOrientationEnum" minOccurs="1" maxOccurs="1" />
3097         <xs:element name="openlrPositiveOffset"
3098         type="D2LogicalModel:MetresAsNonNegativeInteger" minOccurs="0" maxOccurs="1" />
3099         <xs:element name="openlrLocationReferencePoint"
3100         type="D2LogicalModel:OpenlrLocationReferencePoint" />
3101         <xs:element name="openlrLastLocationReferencePoint"
3102         type="D2LogicalModel:OpenlrLastLocationReferencePoint" />
3103         <xs:element name="openlrBasePointLocationExtension"
3104         type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3105     </xs:sequence>
3106 </xs:complexType>
3107 <xs:complexType name="OpenlrCircleLocationReference">
3108     <xs:complexContent>
3109         <xs:extension base="D2LogicalModel:OpenlrAreaLocationReference">
3110             <xs:sequence>
3111                 <xs:element name="radius" type="D2LogicalModel:MetresAsNonNegativeInteger"
3112                 minOccurs="1" maxOccurs="1" />
3113                 <xs:element name="openlrGeoCoordinate"
3114                 type="D2LogicalModel:OpenlrGeoCoordinate" />
3115                 <xs:element name="openlrCircleLocationReferenceExtension"
3116                 type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3117             </xs:sequence>
3118         </xs:extension>
3119     </xs:complexContent>
3120 </xs:complexType>
3121 <xs:complexType name="OpenlrClosedLineLocationReference">
3122     <xs:complexContent>
3123         <xs:extension base="D2LogicalModel:OpenlrAreaLocationReference">
3124             <xs:sequence>
3125                 <xs:element name="openlrLocationReferencePoint"
3126                 type="D2LogicalModel:OpenlrLocationReferencePoint" maxOccurs="unbounded" />
3127                 <xs:element name="openlrLastLine"
3128                 type="D2LogicalModel:OpenlrLineAttributes" />
3129                 <xs:element name="openlrClosedLineLocationReferenceExtension"
3130                 type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3131             </xs:sequence>
3132         </xs:extension>
3133     </xs:complexContent>
3134 </xs:complexType>
3135 <xs:complexType name="OpenlrExtendedArea">
3136     <xs:sequence>
3137         <xs:element name="openlrAreaLocationReference"
3138         type="D2LogicalModel:OpenlrAreaLocationReference" />
3139     </xs:sequence>
3140 </xs:complexType>
3141 <xs:complexType name="OpenlrExtendedLinear">
3142     <xs:sequence>
3143         <xs:element name="firstDirection"
3144         type="D2LogicalModel:OpenlrLineLocationReference" />
3145         <xs:element name="oppositeDirection"
3146         type="D2LogicalModel:OpenlrLineLocationReference" minOccurs="0" />
3147     </xs:sequence>
3148 </xs:complexType>
3149 <xs:complexType name="OpenlrExtendedPoint">
3150     <xs:sequence>
3151         <xs:element name="openlrPointLocationReference"
3152         type="D2LogicalModel:OpenlrPointLocationReference" />
3153     </xs:sequence>
3154 </xs:complexType>
3155 <xs:simpleType name="OpenlrFormOfWayEnum">
3156     <xs:restriction base="xs:string">
3157         <xs:enumeration value="undefined" />
3158         <xs:enumeration value="motorway" />
3159         <xs:enumeration value="multipleCarriageway" />
3160         <xs:enumeration value="singleCarriageway" />
3161         <xs:enumeration value="roundabout" />
3162         <xs:enumeration value="slipRoad" />
3163         <xs:enumeration value="trafficSquare" />
3164         <xs:enumeration value="other" />
3165     </xs:restriction>
3166 </xs:simpleType>
3167 <xs:simpleType name="OpenlrFunctionalRoadClassEnum">

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3153     <xs:restriction base="xs:string">
3154         <xs:enumeration value="FRC0" />
3155         <xs:enumeration value="FRC1" />
3156         <xs:enumeration value="FRC2" />
3157         <xs:enumeration value="FRC3" />
3158         <xs:enumeration value="FRC4" />
3159         <xs:enumeration value="FRC5" />
3160         <xs:enumeration value="FRC6" />
3161         <xs:enumeration value="FRC7" />
3162     </xs:restriction>
3163 </xs:simpleType>
3164 <xs:complexType name="OpenlrGeoCoordinate">
3165     <xs:sequence>
3166         <xs:element name="openlrCoordinate" type="D2LogicalModel:PointCoordinates" />
3167         <xs:element name="openlrGeoCoordinateExtension"
3168             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3169     </xs:sequence>
3170 </xs:complexType>
3171 <xs:complexType name="OpenlrGridAttributes">
3172     <xs:sequence>
3173         <xs:element name="openlrNumColumns" type="D2LogicalModel:NonNegativeInteger"
3174             minOccurs="1" maxOccurs="1" />
3175         <xs:element name="openlrNumRows" type="D2LogicalModel:NonNegativeInteger"
3176             minOccurs="1" maxOccurs="1" />
3177         <xs:element name="openlrGridAttributesExtension"
3178             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3179     </xs:sequence>
3180 </xs:complexType>
3181 <xs:complexType name="OpenlrGridLocationReference">
3182     <xs:complexContent>
3183         <xs:extension base="D2LogicalModel:OpenlrAreaLocationReference">
3184             <xs:sequence>
3185                 <xs:element name="openlrRectangle" type="D2LogicalModel:OpenlrRectangle" />
3186                 <xs:element name="openlrGridAttributes"
3187                     type="D2LogicalModel:OpenlrGridAttributes" />
3188                 <xs:element name="openlrGridLocationReferenceExtension"
3189                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3190             </xs:sequence>
3191         </xs:extension>
3192     </xs:complexContent>
3193 </xs:complexType>
3194 <xs:complexType name="OpenlrLastLocationReferencePoint">
3195     <xs:complexContent>
3196         <xs:extension base="D2LogicalModel:OpenlrBaseLocationReferencePoint">
3197             <xs:sequence>
3198                 <xs:element name="openlrLastLocationReferencePointExtension"
3199                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3200             </xs:sequence>
3201         </xs:extension>
3202     </xs:complexContent>
3203 </xs:complexType>
3204 <xs:complexType name="OpenlrLineAttributes">
3205     <xs:sequence>
3206         <xs:element name="openlrFunctionalRoadClass"
3207             type="D2LogicalModel:OpenlrFunctionalRoadClassEnum" minOccurs="1"
3208             maxOccurs="1" />
3209         <xs:element name="openlrFormOfWay" type="D2LogicalModel:OpenlrFormOfWayEnum"
3210             minOccurs="1" maxOccurs="1" />
3211         <xs:element name="openlrBearing" type="D2LogicalModel:AngleInDegrees"
3212             minOccurs="1" maxOccurs="1" />
3213         <xs:element name="openlrLineAttributesExtension"
3214             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3215     </xs:sequence>
3216 </xs:complexType>
3217 <xs:complexType name="OpenlrLineLocationReference">
3218     <xs:sequence>
3219         <xs:element name="openlrLocationReferencePoint"
3220             type="D2LogicalModel:OpenlrLocationReferencePoint" maxOccurs="unbounded" />
3221         <xs:element name="openlrLastLocationReferencePoint"
3222             type="D2LogicalModel:OpenlrLastLocationReferencePoint" />
3223         <xs:element name="openlrOffsets" type="D2LogicalModel:OpenlrOffsets"
3224             minOccurs="0" />

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3210     <xs:element name="openlrLineLocationReferenceExtension"
3211         type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3212 </xs:sequence>
3213 </xs:complexType>
3214 <xs:complexType name="OpenlrLocationReferencePoint">
3215     <xs:complexContent>
3216         <xs:extension base="D2LogicalModel:OpenlrBaseLocationReferencePoint">
3217             <xs:sequence>
3218                 <xs:element name="openlrPathAttributes"
3219                     type="D2LogicalModel:OpenlrPathAttributes" />
3220                 <xs:element name="openlrLocationReferencePointExtension"
3221                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3222             </xs:sequence>
3223         </xs:extension>
3224     </xs:complexContent>
3225 </xs:complexType>
3226 <xs:complexType name="OpenlrOffsets">
3227     <xs:sequence>
3228         <xs:element name="openlrPositiveOffset"
3229             type="D2LogicalModel:MetresAsNonNegativeInteger" minOccurs="0" maxOccurs="1" />
3230         <xs:element name="openlrNegativeOffset"
3231             type="D2LogicalModel:MetresAsNonNegativeInteger" minOccurs="0" maxOccurs="1" />
3232         <xs:element name="openlrOffsetsExtension" type="D2LogicalModel:_ExtensionType"
3233             minOccurs="0" />
3234     </xs:sequence>
3235 </xs:complexType>
3236 <xs:simpleType name="OpenlrOrientationEnum">
3237     <xs:restriction base="xs:string">
3238         <xs:enumeration value="noOrientationOrUnknown" />
3239         <xs:enumeration value="withLineDirection" />
3240         <xs:enumeration value="againstLineDirection" />
3241         <xs:enumeration value="both" />
3242     </xs:restriction>
3243 </xs:simpleType>
3244 <xs:complexType name="OpenlrPathAttributes">
3245     <xs:sequence>
3246         <xs:element name="openlrLowestFRCToNextLRPoint"
3247             type="D2LogicalModel:OpenlrFunctionalRoadClassEnum" minOccurs="1"
3248             maxOccurs="1" />
3249         <xs:element name="openlrDistanceToNextLRPoint"
3250             type="D2LogicalModel:NonNegativeInteger" minOccurs="1" maxOccurs="1" />
3251         <xs:element name="openlrPathAttributesExtension"
3252             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3253     </xs:sequence>
3254 </xs:complexType>
3255 <xs:complexType name="OpenlrPointAlongLine">
3256     <xs:complexContent>
3257         <xs:extension base="D2LogicalModel:OpenlrBasePointLocation">
3258             <xs:sequence>
3259                 <xs:element name="openlrPointAlongLineExtension"
3260                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3261             </xs:sequence>
3262         </xs:extension>
3263     </xs:complexContent>
3264 </xs:complexType>
3265 <xs:complexType name="OpenlrPointLocationReference">
3266     <xs:sequence>
3267         <xs:element name="openlrGeoCoordinate"
3268             type="D2LogicalModel:OpenlrGeoCoordinate" minOccurs="0" />
3269         <xs:element name="openlrPoiWithAccessPoint"
3270             type="D2LogicalModel:OpenlrPoiWithAccessPoint" minOccurs="0" />
3271         <xs:element name="openlrPointAlongLine"
3272             type="D2LogicalModel:OpenlrPointAlongLine" minOccurs="0" />
3273         <xs:element name="openlrPointLocationReferenceExtension"
3274             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3275     </xs:sequence>
3276 </xs:complexType>
3277 <xs:complexType name="OpenlrPoiWithAccessPoint">
3278     <xs:complexContent>
3279         <xs:extension base="D2LogicalModel:OpenlrBasePointLocation">
3280             <xs:sequence>
3281                 <xs:element name="openlrCoordinate" type="D2LogicalModel:PointCoordinates"

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3267         />
3268         <xs:element name="openlrPoiWithAccessPointExtension"
3269             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3270     </xs:sequence>
3271 </xs:extension>
3272 </xs:complexContent>
3273 </xs:complexType>
3274 <xs:complexType name="OpenlrPolygonCorners">
3275     <xs:sequence>
3276         <xs:element name="openlrCoordinate" type="D2LogicalModel:PointCoordinates"
3277             minOccurs="3" maxOccurs="unbounded" />
3278         <xs:element name="openlrPolygonCornersExtension"
3279             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3280     </xs:sequence>
3281 </xs:complexType>
3282 <xs:complexType name="OpenlrPolygonLocationReference">
3283     <xs:complexContent>
3284         <xs:extension base="D2LogicalModel:OpenlrAreaLocationReference">
3285             <xs:sequence>
3286                 <xs:element name="openlrPolygonCorners"
3287                     type="D2LogicalModel:OpenlrPolygonCorners" />
3288                 <xs:element name="openlrPolygonLocationReferenceExtension"
3289                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3290             </xs:sequence>
3291         </xs:extension>
3292     </xs:complexContent>
3293 </xs:complexType>
3294 <xs:complexType name="OpenlrRectangle">
3295     <xs:sequence>
3296         <xs:element name="openlrLowerLeft" type="D2LogicalModel:PointCoordinates" />
3297         <xs:element name="openlrUpperRight" type="D2LogicalModel:PointCoordinates" />
3298         <xs:element name="openlrRectangleExtension"
3299             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3300     </xs:sequence>
3301 </xs:complexType>
3302 <xs:complexType name="OpenlrRectangleLocationReference">
3303     <xs:complexContent>
3304         <xs:extension base="D2LogicalModel:OpenlrAreaLocationReference">
3305             <xs:sequence>
3306                 <xs:element name="openlrRectangle" type="D2LogicalModel:OpenlrRectangle" />
3307                 <xs:element name="openlrRectangleLocationReferenceExtension"
3308                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3309             </xs:sequence>
3310         </xs:extension>
3311     </xs:complexContent>
3312 </xs:complexType>
3313 <xs:simpleType name="OpenlrSideOfRoadEnum">
3314     <xs:restriction base="xs:string">
3315         <xs:enumeration value="onRoadOrUnknown" />
3316         <xs:enumeration value="right" />
3317         <xs:enumeration value="left" />
3318         <xs:enumeration value="both" />
3319     </xs:restriction>
3320 </xs:simpleType>
3321 <xs:simpleType name="OperatingModeEnum">
3322     <xs:restriction base="xs:string">
3323         <xs:enumeration value="operatingMode0" />
3324         <xs:enumeration value="operatingMode1" />
3325         <xs:enumeration value="operatingMode2" />
3326         <xs:enumeration value="operatingMode3" />
3327     </xs:restriction>
3328 </xs:simpleType>
3329 <xs:simpleType name="OperationStatusEnum">
3330     <xs:restriction base="xs:string">
3331         <xs:enumeration value="inOperation" />
3332         <xs:enumeration value="limitedOperation" />
3333         <xs:enumeration value="notInOperation" />
3334         <xs:enumeration value="notInOperationAbnormal" />
3335         <xs:enumeration value="technicalDefect" />
3336         <xs:enumeration value="unknown" />
3337     </xs:restriction>
3338 </xs:simpleType>

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3331 <xs:complexType name="OperatorAction">
3332   <xs:complexContent>
3333     <xs:extension base="D2LogicalModel:SituationRecord">
3334       <xs:sequence>
3335         <xs:element name="actionOrigin"
3336           type="D2LogicalModel:OperatorActionOriginEnum" minOccurs="0" maxOccurs="1"
3337           />
3338         <xs:element name="actionPlanIdentifier" type="D2LogicalModel:String"
3339           minOccurs="0" maxOccurs="1" />
3340         <xs:element name="operatorActionStatus"
3341           type="D2LogicalModel:OperatorActionStatusEnum" minOccurs="0" maxOccurs="1"
3342           />
3343         <xs:element name="operatorActionExtension"
3344           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3345       </xs:sequence>
3346     </xs:extension>
3347   </xs:complexContent>
3348 </xs:complexType>
3349 <xs:simpleType name="OperatorActionOriginEnum">
3350   <xs:restriction base="xs:string">
3351     <xs:enumeration value="external" />
3352     <xs:enumeration value="internal" />
3353   </xs:restriction>
3354 </xs:simpleType>
3355 <xs:simpleType name="OperatorActionStatusEnum">
3356   <xs:restriction base="xs:string">
3357     <xs:enumeration value="requested" />
3358     <xs:enumeration value="approved" />
3359     <xs:enumeration value="beingImplemented" />
3360     <xs:enumeration value="implemented" />
3361     <xs:enumeration value="rejected" />
3362     <xs:enumeration value="terminationRequested" />
3363     <xs:enumeration value="beingTerminated" />
3364   </xs:restriction>
3365 </xs:simpleType>
3366 <xs:complexType name="OverallPeriod">
3367   <xs:sequence>
3368     <xs:element name="overallStartTime" type="D2LogicalModel:DateTime"
3369       minOccurs="1" maxOccurs="1" />
3370     <xs:element name="overallEndTime" type="D2LogicalModel:DateTime" minOccurs="0"
3371       maxOccurs="1" />
3372     <xs:element name="validPeriod" type="D2LogicalModel:Period" minOccurs="0"
3373       maxOccurs="unbounded" />
3374     <xs:element name="exceptionPeriod" type="D2LogicalModel:Period" minOccurs="0"
3375       maxOccurs="unbounded" />
3376     <xs:element name="overallPeriodExtension" type="D2LogicalModel:_ExtensionType"
3377       minOccurs="0" />
3378   </xs:sequence>
3379 </xs:complexType>
3380 <xs:simpleType name="OwnershipTypeEnum">
3381   <xs:restriction base="xs:string">
3382     <xs:enumeration value="public" />
3383     <xs:enumeration value="private" />
3384     <xs:enumeration value="publicPrivate" />
3385     <xs:enumeration value="resident" />
3386     <xs:enumeration value="unknown" />
3387     <xs:enumeration value="other" />
3388   </xs:restriction>
3389 </xs:simpleType>
3390 <xs:complexType name="ParkingAccess">
3391   <xs:sequence>
3392     <xs:element name="accessCategory" type="D2LogicalModel:AccessCategoryEnum"
3393       minOccurs="1" maxOccurs="unbounded" />
3394     <xs:element name="accessName" type="D2LogicalModel:MultilingualString"
3395       minOccurs="0" maxOccurs="1" />
3396     <xs:element name="accessEquipment" type="D2LogicalModel:AccessEquipmentEnum"
3397       minOccurs="0" maxOccurs="unbounded" />
3398     <xs:element name="accessibility" type="D2LogicalModel:AccessibilityEnum"
3399       minOccurs="0" maxOccurs="unbounded" />
3400     <xs:element name="photoUrl" type="D2LogicalModel:Url" minOccurs="0"
3401       maxOccurs="1" />
3402     <xs:element name="accessOnlyAssignedFor"

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3387     type="D2LogicalModel:ParkingAssignment" minOccurs="0" />
3388     <xs:element name="accessAssignedAmongOthers"
3389     type="D2LogicalModel:ParkingAssignment" minOccurs="0" />
3390     <xs:element name="accessProhibitedFor" type="D2LogicalModel:ParkingAssignment"
3391     minOccurs="0" />
3392     <xs:element name="primaryRoad" type="D2LogicalModel:Road" minOccurs="0"
3393     maxOccurs="unbounded" />
3394     <xs:element name="location" type="D2LogicalModel:Location" minOccurs="0" />
3395     <xs:element name="openingTimes" type="D2LogicalModel:OpeningTimes"
3396     minOccurs="0" />
3397     <xs:element name="parkingAccessExtension" type="D2LogicalModel:_ExtensionType"
3398     minOccurs="0" />
3399   </xs:sequence>
3400   <xs:attribute name="id" type="xs:string" use="required" />
3401 </xs:complexType>
3402 <xs:complexType name="ParkingAccessStatus">
3403   <xs:sequence>
3404     <xs:element name="accessReference"
3405     type="D2LogicalModel:_ParkingAccessReference" minOccurs="1" maxOccurs="1" />
3406     <xs:element name="accessOpeningStatus" type="D2LogicalModel:OpeningStatusEnum"
3407     minOccurs="0" maxOccurs="1" />
3408     <xs:element name="accessFault" type="D2LogicalModel:ParkingFaultEnum"
3409     minOccurs="0" maxOccurs="unbounded" />
3410     <xs:element name="parkingAccessStatusExtension"
3411     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3412   </xs:sequence>
3413 </xs:complexType>
3414 <xs:complexType name="ParkingAssignment">
3415   <xs:sequence>
3416     <xs:element name="applicableForUser" type="D2LogicalModel:UserTypeEnum"
3417     minOccurs="0" maxOccurs="unbounded" />
3418     <xs:element name="parkingDuration" type="D2LogicalModel:ParkingDurationEnum"
3419     minOccurs="0" maxOccurs="unbounded" />
3420     <xs:element name="vehicleCharacteristics"
3421     type="D2LogicalModel:VehicleCharacteristics" minOccurs="0"
3422     maxOccurs="unbounded" />
3423     <xs:element name="hazardousMaterials" type="D2LogicalModel:HazardousMaterials"
3424     minOccurs="0" maxOccurs="unbounded" />
3425     <xs:element name="timePeriodByHour" type="D2LogicalModel:TimePeriodByHour"
3426     minOccurs="0" maxOccurs="unbounded" />
3427     <xs:element name="parkingPermit" type="D2LogicalModel:ParkingPermit"
3428     minOccurs="0" maxOccurs="unbounded" />
3429     <xs:element name="parkingAssignmentExtension"
3430     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3431   </xs:sequence>
3432 </xs:complexType>
3433 <xs:simpleType name="ParkingConditionsEnum">
3434   <xs:restriction base="xs:string">
3435     <xs:enumeration value="normalParkingConditionsSuspended" />
3436     <xs:enumeration value="specialParkingConditionsInForce" />
3437     <xs:enumeration value="other" />
3438   </xs:restriction>
3439 </xs:simpleType>
3440 <xs:simpleType name="ParkingDurationEnum">
3441   <xs:restriction base="xs:string">
3442     <xs:enumeration value="pickUpDropOff" />
3443     <xs:enumeration value="shortTerm" />
3444     <xs:enumeration value="shortTerm24hours" />
3445     <xs:enumeration value="shortTerm48hours" />
3446     <xs:enumeration value="shortTerm72hours" />
3447     <xs:enumeration value="shortTerm96hours" />
3448     <xs:enumeration value="longTerm" />
3449     <xs:enumeration value="unknown" />
3450     <xs:enumeration value="other" />
3451   </xs:restriction>
3452 </xs:simpleType>
3453 <xs:complexType name="ParkingEquipmentOrServiceFacility" abstract="true">
3454   <xs:sequence>
3455     <xs:element name="equipmentOrServiceFacilityIdentifier"
3456     type="D2LogicalModel:String" minOccurs="0" maxOccurs="unbounded" />
3457     <xs:element name="availability" type="D2LogicalModel:AvailabilityEnum"
3458     minOccurs="0" maxOccurs="1" />

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3439     <xs:element name="numberOfEquipmentOrServiceFacility"
3440     type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
3441     <xs:element name="additionalDescription"
3442     type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
3443     <xs:element name="otherEquipmentOrServiceFacility"
3444     type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
3445     <xs:element name="accessibility" type="D2LogicalModel:AccessibilityEnum"
3446     minOccurs="0" maxOccurs="unbounded" />
3447     <xs:element name="nameOrBrand" type="D2LogicalModel:MultilingualString"
3448     minOccurs="0" maxOccurs="1" />
3449     <xs:element name="comment" type="D2LogicalModel:MultilingualString"
3450     minOccurs="0" maxOccurs="1" />
3451     <xs:element name="photoUrl" type="D2LogicalModel:Url" minOccurs="0"
3452     maxOccurs="1" />
3453     <xs:element name="applicableForUser" type="D2LogicalModel:UserTypeEnum"
3454     minOccurs="0" maxOccurs="unbounded" />
3455     <xs:element name="availabilityAndOpeningTimes"
3456     type="D2LogicalModel:OpeningTimes" minOccurs="0" />
3457     <xs:element name="tariffsAndPayment" type="D2LogicalModel:TariffsAndPayment"
3458     minOccurs="0" />
3459     <xs:element name="groupOfLocations" type="D2LogicalModel:GroupOfLocations"
3460     minOccurs="0" />
3461     <xs:element name="applicableForVehicles"
3462     type="D2LogicalModel:VehicleCharacteristics" minOccurs="0"
3463     maxOccurs="unbounded" />
3464     <xs:element name="parkingEquipmentOrServiceFacilityExtension"
3465     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3466 </xs:sequence>
3467 </xs:complexType>
3468 <xs:complexType name="ParkingEquipmentOrServiceFacilityStatus">
3469     <xs:sequence>
3470         <xs:element name="numberOfEquipmentOrServiceFacilityOverride"
3471         type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
3472         <xs:element name="numberOfSubitemsOverride"
3473         type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
3474         <xs:element name="vacantEquipmentOrServiceFacilitySubitems"
3475         type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
3476         <xs:element name="serviceFacilityOpeningStatus"
3477         type="D2LogicalModel:OpeningStatusEnum" minOccurs="0" maxOccurs="1" />
3478         <xs:element name="equipmentOperationStatus"
3479         type="D2LogicalModel:OperationStatusEnum" minOccurs="0" maxOccurs="1" />
3480         <xs:element name="parkingEquipmentOrServiceFacilityStatusExtension"
3481         type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3482     </xs:sequence>
3483 </xs:complexType>
3484 <xs:simpleType name="ParkingFaultEnum">
3485     <xs:restriction base="xs:string">
3486         <xs:enumeration value="communicationsFailure" />
3487         <xs:enumeration value="barrierMalfunction" />
3488         <xs:enumeration value="entranceExitObstructed" />
3489         <xs:enumeration value="erroneousOccupancyInformation" />
3490         <xs:enumeration value="erroneousOccupancyDisplayed" />
3491         <xs:enumeration value="paymentMachinesInoperative" />
3492         <xs:enumeration value="reservationServiceOutOfOrder" />
3493         <xs:enumeration value="noParkingInformationAvailable" />
3494         <xs:enumeration value="unspecified" />
3495         <xs:enumeration value="unknown" />
3496         <xs:enumeration value="other" />
3497     </xs:restriction>
3498 </xs:simpleType>
3499 <xs:simpleType name="ParkingLayoutEnum">
3500     <xs:restriction base="xs:string">
3501         <xs:enumeration value="multiStorey" />
3502         <xs:enumeration value="singleLevel" />
3503         <xs:enumeration value="underground" />
3504         <xs:enumeration value="undergroundAndMultistorey" />
3505         <xs:enumeration value="automatedParkingGarage" />
3506         <xs:enumeration value="openSpace" />
3507         <xs:enumeration value="covered" />
3508         <xs:enumeration value="nested" />
3509         <xs:enumeration value="field" />
3510         <xs:enumeration value="unknown" />

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3491     <xs:enumeration value="other" />
3492 </xs:restriction>
3493 </xs:simpleType>
3494 <xs:simpleType name="ParkingModeEnum">
3495   <xs:restriction base="xs:string">
3496     <xs:enumeration value="perpendicularParking" />
3497     <xs:enumeration value="parallelParking" />
3498     <xs:enumeration value="echelonParking" />
3499     <xs:enumeration value="parkingOnOppositeSideOfRoad" />
3500     <xs:enumeration value="other" />
3501   </xs:restriction>
3502 </xs:simpleType>
3503 <xs:complexType name="ParkingOccupancy">
3504   <xs:sequence>
3505     <xs:element name="parkingNumberOfSpacesOverride"
3506       type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
3507     <xs:element name="parkingNumberOfVacantSpaces"
3508       type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
3509     <xs:element name="parkingNumberOfVacantSpacesLowerThan"
3510       type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
3511     <xs:element name="parkingNumberOfVacantSpacesHigherThan"
3512       type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
3513     <xs:element name="parkingNumberOfVacantSpacesGraded"
3514       type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
3515     <xs:element name="parkingNumberOfOccupiedSpaces"
3516       type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
3517     <xs:element name="parkingNumberOfVehicles"
3518       type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
3519     <xs:element name="parkingOccupancy" type="D2LogicalModel:Percentage"
3520       minOccurs="0" maxOccurs="1" />
3521     <xs:element name="parkingOccupancyGraded"
3522       type="D2LogicalModel:Percentage" minOccurs="0" maxOccurs="1" />
3523     <xs:element name="parkingOccupancyTrend"
3524       type="D2LogicalModel:PercentageTrendEnum" minOccurs="0" maxOccurs="1" />
3525     <xs:element name="parkingNotAllowed" type="D2LogicalModel:Boolean"
3526       minOccurs="0" maxOccurs="1" />
3527     <xs:element name="vehicleCountAndRate"
3528       type="D2LogicalModel:VehicleCountAndRate" minOccurs="0" maxOccurs="unbounded" />
3529     <xs:element name="parkingOccupancyExtension"
3530       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3531   </xs:sequence>
3532 </xs:complexType>
3533 <xs:simpleType name="ParkingOccupancyEnum">
3534   <xs:restriction base="xs:string">
3535     <xs:enumeration value="expectCarParkToBeFull" />
3536     <xs:enumeration value="percentage10" />
3537     <xs:enumeration value="percentage20" />
3538     <xs:enumeration value="percentage30" />
3539     <xs:enumeration value="percentage40" />
3540     <xs:enumeration value="percentage50" />
3541     <xs:enumeration value="percentage60" />
3542     <xs:enumeration value="percentage70" />
3543     <xs:enumeration value="percentage80" />
3544     <xs:enumeration value="percentage90" />
3545     <xs:enumeration value="full" />
3546     <xs:enumeration value="unknown" />
3547   </xs:restriction>
3548 </xs:simpleType>
3549 <xs:simpleType name="ParkingOccupancyTrendEnum">
3550   <xs:restriction base="xs:string">
3551     <xs:enumeration value="decreasing" />
3552     <xs:enumeration value="increasing" />
3553     <xs:enumeration value="stable" />
3554     <xs:enumeration value="increasingQuickly" />
3555     <xs:enumeration value="increasingSlowly" />
3556     <xs:enumeration value="decreasingQuickly" />
3557     <xs:enumeration value="decreasingSlowly" />
3558     <xs:enumeration value="unknown" />
3559     <xs:enumeration value="other" />
3560   </xs:restriction>
3561 </xs:simpleType>
3562 <xs:simpleType name="ParkingPaymentModeEnum">

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3550     <xs:restriction base="xs:string">
3551       <xs:enumeration value="payAndDisplay" />
3552       <xs:enumeration value="payManualAtExitBooth" />
3553       <xs:enumeration value="payPriorToExit" />
3554       <xs:enumeration value="payByPrepaidToken" />
3555       <xs:enumeration value="payAndExit" />
3556       <xs:enumeration value="other" />
3557     </xs:restriction>
3558   </xs:simpleType>
3559   <xs:complexType name="ParkingPermit">
3560     <xs:sequence>
3561       <xs:element name="parkingPermitType" type="D2LogicalModel:PermitTypeEnum"
3562         minOccurs="1" maxOccurs="1" />
3563       <xs:element name="parkingPermitScheme" type="D2LogicalModel:String"
3564         minOccurs="0" maxOccurs="1" />
3565       <xs:element name="parkingPermitIdentifier" type="D2LogicalModel:String"
3566         minOccurs="0" maxOccurs="1" />
3567       <xs:element name="parkingPermitExtension" type="D2LogicalModel:_ExtensionType"
3568         minOccurs="0" />
3569     </xs:sequence>
3570   </xs:complexType>
3571   <xs:complexType name="ParkingRecord" abstract="true">
3572     <xs:sequence>
3573       <xs:element name="parkingName" type="D2LogicalModel:MultilingualString"
3574         minOccurs="0" maxOccurs="1" />
3575       <xs:element name="parkingAlias" type="D2LogicalModel:MultilingualString"
3576         minOccurs="0" maxOccurs="unbounded" />
3577       <xs:element name="parkingDescription" type="D2LogicalModel:MultilingualString"
3578         minOccurs="0" maxOccurs="1" />
3579       <xs:element name="parkingRecordVersionTime" type="D2LogicalModel:DateTime"
3580         minOccurs="1" maxOccurs="1" />
3581       <xs:element name="parkingNumberOfSpaces"
3582         type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
3583       <xs:element name="parkingPrincipalNumberOfSpaces"
3584         type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
3585       <xs:element name="maximumParkingDuration" type="D2LogicalModel:Seconds"
3586         minOccurs="0" maxOccurs="1" />
3587       <xs:element name="photoUrl" type="D2LogicalModel:Url" minOccurs="0"
3588         maxOccurs="1" />
3589       <xs:element name="urlLinkAddress" type="D2LogicalModel:Url" minOccurs="0"
3590         maxOccurs="1" />
3591       <xs:element name="parkingOccupancyDetectionType"
3592         type="D2LogicalModel:OccupancyDetectionTypeEnum" minOccurs="0"
3593         maxOccurs="unbounded" />
3594       <xs:element name="emergencyContact" type="D2LogicalModel:Contact"
3595         minOccurs="0" maxOccurs="unbounded" />
3596       <xs:element name="owner" type="D2LogicalModel:Contact" minOccurs="0"
3597         maxOccurs="unbounded" />
3598       <xs:element name="responsibleAuthority" type="D2LogicalModel:Contact"
3599         minOccurs="0" maxOccurs="unbounded" />
3600       <xs:element name="securityService" type="D2LogicalModel:Contact" minOccurs="0"
3601         maxOccurs="unbounded" />
3602       <xs:element name="operator" type="D2LogicalModel:Contact" minOccurs="0"
3603         maxOccurs="unbounded" />
3604       <xs:element name="servicePartner" type="D2LogicalModel:Contact" minOccurs="0"
3605         maxOccurs="unbounded" />
3606       <xs:element name="parkingVMS" type="D2LogicalModel:ParkingVMS" minOccurs="0"
3607         maxOccurs="unbounded" />
3608       <xs:element name="parkingLocation" type="D2LogicalModel:GroupOfLocations" />
3609       <xs:element name="parkingRoute" type="D2LogicalModel:ParkingRoute"
3610         minOccurs="0" maxOccurs="unbounded" />
3611       <xs:element name="parkingColour" type="D2LogicalModel:RGBColour" minOccurs="0"
3612         />
3613       <xs:element name="onlyAssignedParking" type="D2LogicalModel:ParkingAssignment"
3614         minOccurs="0" />
3615       <xs:element name="assignedParkingAmongOthers"
3616         type="D2LogicalModel:ParkingAssignment" minOccurs="0" />
3617       <xs:element name="prohibitedParking" type="D2LogicalModel:ParkingAssignment"
3618         minOccurs="0" />
3619       <xs:element name="tariffsAndPayment" type="D2LogicalModel:TariffsAndPayment"
3620         minOccurs="0" />
3621       <xs:element name="parkingEquipmentOrServiceFacility"

```



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type="D2LogicalModel:_ParkingRecordEquipmentOrServiceFacilityIndexParkingEquipme
ntOrServiceFacility" minOccurs="0" maxOccurs="unbounded" />
3594 <xs:element name="parkingSpace" type="D2LogicalModel:_ParkingSpace"
minOccurs="0" maxOccurs="unbounded" />
3595 <xs:element name="groupOfParkingSpaces"
type="D2LogicalModel:_GroupOfParkingSpaces" minOccurs="0"
maxOccurs="unbounded" />
3596 <xs:element name="parkingThresholds" type="D2LogicalModel:ParkingThresholds"
minOccurs="0" />
3597 <xs:element name="permitsAndProhibitions"
type="D2LogicalModel:PermitsAndProhibitions" minOccurs="0"
maxOccurs="unbounded" />
3598 <xs:element name="emergencyAssemblyPoint"
type="D2LogicalModel:GroupOfLocations" minOccurs="0" />
3599 <xs:element name="entireArea" type="D2LogicalModel:Area" minOccurs="0" />
3600 <xs:element name="parkingRecordDimension" type="D2LogicalModel:Dimension"
minOccurs="0" />
3601 <xs:element name="parkingRecordExtension" type="D2LogicalModel:_ExtensionType"
minOccurs="0" />
3602 </xs:sequence>
3603 <xs:attribute name="id" type="xs:string" use="required" />
3604 <xs:attribute name="version" type="xs:string" use="required" />
3605 </xs:complexType>
3606 <xs:complexType name="ParkingRecordStatus" abstract="true">
3607 <xs:sequence>
3608 <xs:element name="parkingRecordReference"
type="D2LogicalModel:_ParkingRecordVersionedReference" minOccurs="1"
maxOccurs="1" />
3609 <xs:element name="parkingStatusOriginTime" type="D2LogicalModel:DateTime"
minOccurs="1" maxOccurs="1" />
3610 <xs:element name="parkingStatusDescription"
type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
3611 <xs:element name="parkingQueueingTime" type="D2LogicalModel:Seconds"
minOccurs="0" maxOccurs="1" />
3612 <xs:element name="parkingConditions"
type="D2LogicalModel:ParkingConditionsEnum" minOccurs="0" maxOccurs="1" />
3613 <xs:element name="blurredAvailability" type="D2LogicalModel:Boolean"
minOccurs="0" maxOccurs="unbounded" />
3614 <xs:element name="parkingFault" type="D2LogicalModel:ParkingFaultEnum"
minOccurs="0" maxOccurs="unbounded" />
3615 <xs:element name="winterEquipmentManagementType"
type="D2LogicalModel:WinterEquipmentManagementTypeEnum" minOccurs="0"
maxOccurs="unbounded" />
3616 <xs:element name="parkingSpaceStatus"
type="D2LogicalModel:_ParkingRecordStatusParkingSpaceIndexParkingSpaceStatus"
minOccurs="0" maxOccurs="unbounded" />
3617 <xs:element name="parkingOccupancy" type="D2LogicalModel:ParkingOccupancy" />
3618 <xs:element name="groupOfParkingSpacesStatus"
type="D2LogicalModel:_ParkingRecordStatusGroupIndexGroupOfParkingSpacesStatus"
minOccurs="0" maxOccurs="unbounded" />
3619 <xs:element name="parkingStatusValidity"
type="D2LogicalModel:ParkingStatusValidity" minOccurs="0" />
3620 <xs:element name="overrideParkingThresholds"
type="D2LogicalModel:ParkingThresholds" minOccurs="0" />
3621 <xs:element name="parkingEquipmentOrServiceFacilityStatus"
type="D2LogicalModel:_ParkingRecordStatusEquipmentOrServiceFacilityIndexParkingE
quipmentOrServiceFacilityStatus" minOccurs="0" maxOccurs="unbounded" />
3622 <xs:element name="parkingUsageScenarioStatus"
type="D2LogicalModel:_ParkingRecordStatusScenarioIndexParkingUsageScenarioStatus"
minOccurs="0" maxOccurs="unbounded" />
3623 <xs:element name="parkingAccessStatus"
type="D2LogicalModel:ParkingAccessStatus" minOccurs="0" maxOccurs="unbounded" />
3624 <xs:element name="parkingRouteStatus" type="D2LogicalModel:ParkingRouteStatus"
minOccurs="0" maxOccurs="unbounded" />
3625 <xs:element name="parkingRecordStatusExtension"
type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3626 </xs:sequence>
3627 </xs:complexType>
3628 <xs:complexType name="ParkingRoute" abstract="true">
3629 <xs:sequence>
3630 <xs:element name="parkingRouteColour" type="D2LogicalModel:RGBColour"
minOccurs="0" />

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3631     <xs:element name="parkingRouteExtension" type="D2LogicalModel:_ExtensionType"
3632         minOccurs="0" />
3633 </xs:sequence>
3634 </xs:complexType>
3635 <xs:complexType name="ParkingRouteByReference">
3636     <xs:complexContent>
3637         <xs:extension base="D2LogicalModel:ParkingRoute">
3638             <xs:sequence>
3639                 <xs:element name="parkingRouteReference"
3640                     type="D2LogicalModel:_ParkingRouteDetailsVersionedReference" minOccurs="1"
3641                     maxOccurs="1" />
3642                 <xs:element name="parkingRouteByReferenceExtension"
3643                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3644             </xs:sequence>
3645         </xs:extension>
3646     </xs:complexContent>
3647 </xs:complexType>
3648 <xs:complexType name="ParkingRouteDetails">
3649     <xs:complexContent>
3650         <xs:extension base="D2LogicalModel:ParkingRoute">
3651             <xs:sequence>
3652                 <xs:element name="parkingRouteName"
3653                     type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
3654                 <xs:element name="parkingRouteType"
3655                     type="D2LogicalModel:ParkingRouteTypeEnum" minOccurs="0" maxOccurs="1" />
3656                 <xs:element name="dynamicRouteManagement" type="D2LogicalModel:Boolean"
3657                     minOccurs="0" maxOccurs="1" />
3658                 <xs:element name="parkingRouteIconIndex" type="D2LogicalModel:String"
3659                     minOccurs="0" maxOccurs="1" />
3660                 <xs:element name="parkingRouteDirection"
3661                     type="D2LogicalModel:DirectionEnum" minOccurs="0" maxOccurs="1" />
3662                 <xs:element name="parkingRouteDirection2"
3663                     type="D2LogicalModel:ParkingRouteDirectionEnum" minOccurs="0"
3664                     maxOccurs="1" />
3665                 <xs:element name="groupOfLocations" type="D2LogicalModel:GroupOfLocations"
3666                     minOccurs="0" />
3667                 <xs:element name="parkingRouteDetailsExtension"
3668                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3669             </xs:sequence>
3670             <xs:attribute name="id" type="xs:string" use="required" />
3671             <xs:attribute name="version" type="xs:string" use="required" />
3672         </xs:extension>
3673     </xs:complexContent>
3674 </xs:complexType>
3675 <xs:simpleType name="ParkingRouteDirectionEnum">
3676     <xs:restriction base="xs:string">
3677         <xs:enumeration value="towardsParkingSite" />
3678         <xs:enumeration value="awayFromParkingSite" />
3679     </xs:restriction>
3680 </xs:simpleType>
3681 <xs:complexType name="ParkingRouteStatus">
3682     <xs:sequence>
3683         <xs:element name="parkingRouteReference"
3684             type="D2LogicalModel:_ParkingRouteDetailsVersionedReference" minOccurs="1"
3685             maxOccurs="1" />
3686         <xs:element name="parkingRouteActive" type="D2LogicalModel:Boolean"
3687             minOccurs="1" maxOccurs="1" />
3688         <xs:element name="parkingRouteStatusExtension"
3689             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3690     </xs:sequence>
3691 </xs:complexType>
3692 <xs:simpleType name="ParkingRouteTypeEnum">
3693     <xs:restriction base="xs:string">
3694         <xs:enumeration value="pedestrian" />
3695         <xs:enumeration value="bicycle" />
3696         <xs:enumeration value="lorry" />
3697         <xs:enumeration value="other" />
3698     </xs:restriction>
3699 </xs:simpleType>
3700 <xs:simpleType name="ParkingSecurityEnum">
3701     <xs:restriction base="xs:string">
3702         <xs:enumeration value="socialControl" />

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3686     <xs:enumeration value="securityStaff" />
3687     <xs:enumeration value="externalSecurity" />
3688     <xs:enumeration value="cctv" />
3689     <xs:enumeration value="dog" />
3690     <xs:enumeration value="guard24hours" />
3691     <xs:enumeration value="lighting" />
3692     <xs:enumeration value="floodLight" />
3693     <xs:enumeration value="fences" />
3694     <xs:enumeration value="areaSeperatedFromSurroundings" />
3695     <xs:enumeration value="none" />
3696     <xs:enumeration value="unknown" />
3697     <xs:enumeration value="other" />
3698   </xs:restriction>
3699 </xs:simpleType>
3700 <xs:complexType name="ParkingSite" abstract="true">
3701   <xs:complexContent>
3702     <xs:extension base="D2LogicalModel:ParkingRecord">
3703       <xs:sequence>
3704         <xs:element name="parkingReservation"
3705           type="D2LogicalModel:ReservationTypeEnum" minOccurs="0" maxOccurs="1" />
3706         <xs:element name="parkingLayout" type="D2LogicalModel:ParkingLayoutEnum"
3707           minOccurs="0" maxOccurs="unbounded" />
3708         <xs:element name="highestFloor" type="D2LogicalModel:Integer"
3709           minOccurs="0" maxOccurs="1" />
3710         <xs:element name="lowestFloor" type="D2LogicalModel:Integer" minOccurs="0"
3711           maxOccurs="1" />
3712         <xs:element name="temporaryParking" type="D2LogicalModel:Boolean"
3713           minOccurs="0" maxOccurs="1" />
3714         <xs:element name="parkingSiteAddress" type="D2LogicalModel:Contact"
3715           minOccurs="0" maxOccurs="unbounded" />
3716         <xs:element name="reservationService" type="D2LogicalModel:Contact"
3717           minOccurs="0" maxOccurs="unbounded" />
3718         <xs:element name="parkingUsageScenario"
3719           type="D2LogicalModel:_ParkingSiteScenarioIndexParkingUsageScenario"
3720           minOccurs="0" maxOccurs="unbounded" />
3721         <xs:element name="openingTimes" type="D2LogicalModel:OpeningTimes"
3722           minOccurs="0" />
3723         <xs:element name="parkingAccess" type="D2LogicalModel:ParkingAccess"
3724           minOccurs="0" maxOccurs="unbounded" />
3725         <xs:element name="parkingStandardsAndSecurity"
3726           type="D2LogicalModel:ParkingStandardsAndSecurity" minOccurs="0" />
3727         <xs:element name="parkingSiteExtension"
3728           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3729       </xs:sequence>
3730     </xs:extension>
3731   </xs:complexContent>
3732 </xs:complexType>
3733 <xs:simpleType name="ParkingSiteOvercrowdingStatusEnum">
3734   <xs:restriction base="xs:string">
3735     <xs:enumeration value="overcrowding" />
3736     <xs:enumeration value="noOvercrowding" />
3737     <xs:enumeration value="overcrowdingLevel1" />
3738     <xs:enumeration value="overcrowdingLevel2" />
3739     <xs:enumeration value="unknown" />
3740     <xs:enumeration value="other" />
3741   </xs:restriction>
3742 </xs:simpleType>
3743 <xs:complexType name="ParkingSiteStatus">
3744   <xs:complexContent>
3745     <xs:extension base="D2LogicalModel:ParkingRecordStatus">
3746       <xs:sequence>
3747         <xs:element name="parkingSiteStatus"
3748           type="D2LogicalModel:ParkingSiteStatusEnum" minOccurs="0" maxOccurs="1" />
3749         <xs:element name="parkingSiteOpeningStatus"
3750           type="D2LogicalModel:OpeningStatusEnum" minOccurs="0" maxOccurs="1" />
3751         <xs:element name="parkingSiteOvercrowdingStatus"
3752           type="D2LogicalModel:ParkingSiteOvercrowdingStatusEnum" minOccurs="0"
3753           maxOccurs="1" />
3754         <xs:element name="parkingSiteFullAtFloor" type="D2LogicalModel:Integer"
3755           minOccurs="0" maxOccurs="unbounded" />
3756         <xs:element name="parkingSiteStatusExtension"
3757           type="D2LogicalModel:_ExtensionType" minOccurs="0" />

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3739         </xs:sequence>
3740     </xs:extension>
3741 </xs:complexContent>
3742 </xs:complexType>
3743 <xs:simpleType name="ParkingSiteStatusEnum">
3744     <xs:restriction base="xs:string">
3745         <xs:enumeration value="spacesAvailable" />
3746         <xs:enumeration value="almostFull" />
3747         <xs:enumeration value="fullAtEntrance" />
3748         <xs:enumeration value="full" />
3749         <xs:enumeration value="unknown" />
3750         <xs:enumeration value="other" />
3751     </xs:restriction>
3752 </xs:simpleType>
3753 <xs:complexType name="ParkingSpace">
3754     <xs:complexContent>
3755         <xs:extension base="D2LogicalModel:ParkingSpaceBasics">
3756             <xs:sequence>
3757                 <xs:element name="identicalToParkingSpace"
3758                     type="D2LogicalModel:IndexReference" minOccurs="0" maxOccurs="unbounded" />
3759                 <xs:element name="location" type="D2LogicalModel:Location" minOccurs="0" />
3760                 <xs:element name="parkingSpaceDimension" type="D2LogicalModel:Dimension"
3761                     minOccurs="0" />
3762                 <xs:element name="parkingSpaceExtension"
3763                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3764             </xs:sequence>
3765         </xs:extension>
3766     </xs:complexContent>
3767 </xs:complexType>
3768 <xs:simpleType name="ParkingSpaceAccessibilityEnum">
3769     <xs:restriction base="xs:string">
3770         <xs:enumeration value="extraSpaceLeftSide" />
3771         <xs:enumeration value="extraSpaceRightSide" />
3772         <xs:enumeration value="nearbyPedestrianExit" />
3773         <xs:enumeration value="bordersMarked" />
3774         <xs:enumeration value="other" />
3775     </xs:restriction>
3776 </xs:simpleType>
3777 <xs:complexType name="ParkingSpaceBasics" abstract="true">
3778     <xs:sequence>
3779         <xs:element name="parkingSpaceOrGroupIdentifier"
3780             type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
3781         <xs:element name="parkingFloorOrLevel" type="D2LogicalModel:Integer"
3782             minOccurs="0" maxOccurs="1" />
3783         <xs:element name="accessibility" type="D2LogicalModel:AccessibilityEnum"
3784             minOccurs="0" maxOccurs="unbounded" />
3785         <xs:element name="parkingSpaceAccessibility"
3786             type="D2LogicalModel:ParkingSpaceAccessibilityEnum" minOccurs="0"
3787             maxOccurs="unbounded" />
3788         <xs:element name="parkingSpacePhysics"
3789             type="D2LogicalModel:ParkingSpacePhysicsEnum" minOccurs="0" maxOccurs="2" />
3790         <xs:element name="parkingMode" type="D2LogicalModel:ParkingModeEnum"
3791             minOccurs="0" maxOccurs="1" />
3792         <xs:element name="parkingReservation"
3793             type="D2LogicalModel:ReservationTypeEnum" minOccurs="0" maxOccurs="1" />
3794         <xs:element name="maximumParkingDuration" type="D2LogicalModel:Seconds"
3795             minOccurs="0" maxOccurs="1" />
3796         <xs:element name="distanceFromPrimaryRoad"
3797             type="D2LogicalModel:MetresAsNonNegativeInteger" minOccurs="0" maxOccurs="1" />
3798         <xs:element name="parkingOccupancyDetectionType"
3799             type="D2LogicalModel:OccupancyDetectionTypeEnum" minOccurs="0"
3800             maxOccurs="unbounded" />
3801         <xs:element name="parkingSecurity" type="D2LogicalModel:ParkingSecurityEnum"
3802             minOccurs="0" maxOccurs="unbounded" />
3803         <xs:element name="dedicatedAccess" type="D2LogicalModel:DedicatedAccess"
3804             minOccurs="0" maxOccurs="unbounded" />
3805         <xs:element name="onlyAssignedParking" type="D2LogicalModel:ParkingAssignment"
3806             minOccurs="0" />
3807         <xs:element name="assignedParkingAmongOthers"
3808             type="D2LogicalModel:ParkingAssignment" minOccurs="0" />
3809         <xs:element name="prohibitedParking" type="D2LogicalModel:ParkingAssignment"
3810             minOccurs="0" />

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3791     <xs:element name="parkingEquipmentOrServiceFacility"
3792     type="D2LogicalModel:_ParkingSpaceBasicsEquipmentOrServiceFacilityIndexParkingEq
3793     uipmentOrServiceFacility" minOccurs="0" maxOccurs="unbounded" />
3794     <xs:element name="parkingUsageScenario"
3795     type="D2LogicalModel:_ParkingSpaceBasicsScenarioIndexParkingUsageScenario"
3796     minOccurs="0" maxOccurs="unbounded" />
3797     <xs:element name="parkingSpaceBasicsExtension"
3798     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3799   </xs:sequence>
3800 </xs:complexType>
3801 <xs:simpleType name="ParkingSpacePhysicsEnum">
3802   <xs:restriction base="xs:string">
3803     <xs:enumeration value="driveThrough" />
3804     <xs:enumeration value="openAir" />
3805   </xs:restriction>
3806 </xs:simpleType>
3807 <xs:complexType name="ParkingSpaceStatus">
3808   <xs:sequence>
3809     <xs:element name="parkingSpaceOccupied" type="D2LogicalModel:Boolean"
3810     minOccurs="1" maxOccurs="1" />
3811     <xs:element name="parkingSpaceClosed" type="D2LogicalModel:Boolean"
3812     minOccurs="0" maxOccurs="1" />
3813     <xs:element name="parkingSpaceDeclarationValidNow"
3814     type="D2LogicalModel:Boolean" minOccurs="0" maxOccurs="1" />
3815     <xs:element name="measurementOrCalculationTime" type="D2LogicalModel:DateTime"
3816     minOccurs="0" maxOccurs="1" />
3817     <xs:element name="lastCalibration" type="D2LogicalModel:DateTime"
3818     minOccurs="0" maxOccurs="1" />
3819     <xs:element name="parkingSpaceStatusExtension"
3820     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3821   </xs:sequence>
3822 </xs:complexType>
3823 <xs:simpleType name="ParkingSpecialLocationEnum">
3824   <xs:restriction base="xs:string">
3825     <xs:enumeration value="airportTerminal" />
3826     <xs:enumeration value="exhibitonCentre" />
3827     <xs:enumeration value="shoppingCentre" />
3828     <xs:enumeration value="specificFacility" />
3829     <xs:enumeration value="trainStation" />
3830     <xs:enumeration value="campground" />
3831     <xs:enumeration value="themePark" />
3832     <xs:enumeration value="ferryTerminal" />
3833     <xs:enumeration value="vehicleOnRailTerminal" />
3834     <xs:enumeration value="coachStation" />
3835     <xs:enumeration value="cableCarStation" />
3836     <xs:enumeration value="publicTransportStation" />
3837     <xs:enumeration value="market" />
3838     <xs:enumeration value="religiousCentre" />
3839     <xs:enumeration value="conventionCentre" />
3840     <xs:enumeration value="cinema" />
3841     <xs:enumeration value="skilift" />
3842     <xs:enumeration value="unknown" />
3843     <xs:enumeration value="other" />
3844   </xs:restriction>
3845 </xs:simpleType>
3846 <xs:complexType name="ParkingStandardsAndSecurity">
3847   <xs:sequence>
3848     <xs:element name="labelSecurityLevel"
3849     type="D2LogicalModel:LABELSecurityLevelEnum" minOccurs="0" maxOccurs="1" />
3850     <xs:element name="labelServiceLevel"
3851     type="D2LogicalModel:LABELServiceLevelEnum" minOccurs="0" maxOccurs="1" />
3852     <xs:element name="labelSecurityLevelSelfAssessment"
3853     type="D2LogicalModel:LABELSecurityLevelEnum" minOccurs="0" maxOccurs="1" />
3854     <xs:element name="labelServiceLevelSelfAssessment"
3855     type="D2LogicalModel:LABELServiceLevelEnum" minOccurs="0" maxOccurs="1" />
3856     <xs:element name="parkingSecurity" type="D2LogicalModel:ParkingSecurityEnum"
3857     minOccurs="0" maxOccurs="unbounded" />
3858     <xs:element name="parkingAdditionalSecurity"
3859     type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="unbounded" />
3860     <xs:element name="parkingSupervision"
3861     type="D2LogicalModel:ParkingSupervisionEnum" minOccurs="0"
3862     maxOccurs="unbounded" />

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3844     <xs:element name="parkingSecurityNationalClassification"
3845     type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
3846     <xs:element name="certifiedSecureParking" type="D2LogicalModel:Boolean"
3847     minOccurs="0" maxOccurs="1" />
3848     <xs:element name="dateOfCertification" type="D2LogicalModel:Date"
3849     minOccurs="0" maxOccurs="1" />
3850     <xs:element name="parkingStandardsAndSecurityExtension"
3851     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3852   </xs:sequence>
3853 </xs:complexType>
3854 <xs:complexType name="ParkingStatusColourMapping">
3855   <xs:sequence>
3856     <xs:element name="parkingSiteStatus"
3857     type="D2LogicalModel:ParkingSiteStatusEnum" minOccurs="1" maxOccurs="1" />
3858     <xs:element name="rgbColour" type="D2LogicalModel:RGBColour" />
3859     <xs:element name="parkingStatusColourMappingExtension"
3860     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3861   </xs:sequence>
3862 </xs:complexType>
3863 <xs:complexType name="ParkingStatusPublication">
3864   <xs:sequence>
3865     <xs:element name="parkingTableReference"
3866     type="D2LogicalModel:_ParkingTableVersionedReference" minOccurs="0"
3867     maxOccurs="unbounded" />
3868     <xs:element name="headerInformation" type="D2LogicalModel:HeaderInformation"
3869     minOccurs="0" />
3870     <xs:element name="parkingRecordStatus"
3871     type="D2LogicalModel:ParkingRecordStatus" maxOccurs="unbounded" />
3872   </xs:sequence>
3873 </xs:complexType>
3874 <xs:complexType name="ParkingStatusValidity">
3875   <xs:sequence>
3876     <xs:element name="parkingStatusTime" type="D2LogicalModel:DateTime"
3877     minOccurs="0" maxOccurs="1" />
3878     <xs:element name="parkingStatusTimeOffsetToOrigin"
3879     type="D2LogicalModel:Seconds" minOccurs="0" maxOccurs="1" />
3880     <xs:element name="validityTimeSpecification"
3881     type="D2LogicalModel:OverallPeriod" minOccurs="0" />
3882     <xs:element name="parkingStatusValidityExtension"
3883     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3884   </xs:sequence>
3885 </xs:complexType>
3886 <xs:simpleType name="ParkingSupervisionEnum">
3887   <xs:restriction base="xs:string">
3888     <xs:enumeration value="remote" />
3889     <xs:enumeration value="onSite" />
3890     <xs:enumeration value="controlCentreOnSite" />
3891     <xs:enumeration value="controlCentreOffSite" />
3892     <xs:enumeration value="patrol" />
3893     <xs:enumeration value="none" />
3894     <xs:enumeration value="unknown" />
3895     <xs:enumeration value="other" />
3896   </xs:restriction>
3897 </xs:simpleType>
3898 <xs:complexType name="ParkingTable">
3899   <xs:sequence>
3900     <xs:element name="parkingTableName" type="D2LogicalModel:MultilingualString"
3901     minOccurs="0" maxOccurs="1" />
3902     <xs:element name="parkingTableVersionTime" type="D2LogicalModel:DateTime"
3903     minOccurs="1" maxOccurs="1" />
3904     <xs:element name="parkingRecord" type="D2LogicalModel:ParkingRecord"
3905     maxOccurs="unbounded" />
3906     <xs:element name="parkingTableExtension" type="D2LogicalModel:_ExtensionType"
3907     minOccurs="0" />
3908   </xs:sequence>
3909   <xs:attribute name="id" type="xs:string" use="required" />
3910   <xs:attribute name="version" type="xs:string" use="required" />
3911 </xs:complexType>
3912 <xs:complexType name="ParkingTablePublication">
3913   <xs:sequence>
3914     <xs:element name="headerInformation" type="D2LogicalModel:HeaderInformation"
3915     minOccurs="0" />

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3897     <xs:element name="parkingTable" type="D2LogicalModel:ParkingTable"
3898         maxOccurs="unbounded" />
3899 </xs:sequence>
3900 </xs:complexType>
3901 <xs:complexType name="ParkingThresholds">
3902     <xs:sequence>
3903         <xs:element name="almostFullDecreasing"
3904             type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
3905         <xs:element name="almostFullIncreasing"
3906             type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
3907         <xs:element name="entranceFull" type="D2LogicalModel:NonNegativeInteger"
3908             minOccurs="0" maxOccurs="1" />
3909         <xs:element name="fullDecreasing" type="D2LogicalModel:NonNegativeInteger"
3910             minOccurs="0" maxOccurs="1" />
3911         <xs:element name="fullIncreasing" type="D2LogicalModel:NonNegativeInteger"
3912             minOccurs="0" maxOccurs="1" />
3913         <xs:element name="overcrowding" type="D2LogicalModel:NonNegativeInteger"
3914             minOccurs="0" maxOccurs="1" />
3915         <xs:element name="overcrowdingLevel1" type="D2LogicalModel:NonNegativeInteger"
3916             minOccurs="0" maxOccurs="1" />
3917         <xs:element name="overcrowdingLevel2" type="D2LogicalModel:NonNegativeInteger"
3918             minOccurs="0" maxOccurs="1" />
3919         <xs:element name="parkingLastMaximumOccupancy"
3920             type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
3921         <xs:element name="parkingStatusColourMapping"
3922             type="D2LogicalModel:ParkingStatusColourMapping" minOccurs="0"
3923             maxOccurs="unbounded" />
3924         <xs:element name="parkingThresholdsExtension"
3925             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3926     </xs:sequence>
3927 </xs:complexType>
3928 <xs:simpleType name="ParkingTypeOfGroup">
3929     <xs:restriction base="xs:string">
3930         <xs:enumeration value="adjacentSpaces" />
3931         <xs:enumeration value="nonAdjacentSpaces" />
3932         <xs:enumeration value="completeFloor" />
3933         <xs:enumeration value="mixedUsage" />
3934         <xs:enumeration value="statisticsOnly" />
3935         <xs:enumeration value="singleParameters" />
3936         <xs:enumeration value="other" />
3937     </xs:restriction>
3938 </xs:simpleType>
3939 <xs:complexType name="ParkingUsageScenario">
3940     <xs:sequence>
3941         <xs:element name="parkingUsageScenario"
3942             type="D2LogicalModel:ParkingUsageScenarioEnum" minOccurs="1" maxOccurs="1" />
3943         <xs:element name="truckParkingDynamicManagement"
3944             type="D2LogicalModel:TruckParkingDynamicManagementEnum" minOccurs="0"
3945             maxOccurs="unbounded" />
3946         <xs:element name="eventParkingType" type="D2LogicalModel:PublicEventTypeEnum"
3947             minOccurs="0" maxOccurs="1" />
3948         <xs:element name="eventParkingType2"
3949             type="D2LogicalModel:PublicEventType2Enum" minOccurs="0" maxOccurs="1" />
3950         <xs:element name="scenarioAvailability" type="D2LogicalModel:OverallPeriod"
3951             minOccurs="0" />
3952         <xs:element name="parkingUsageScenarioExtension"
3953             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3954     </xs:sequence>
3955 </xs:complexType>
3956 <xs:simpleType name="ParkingUsageScenarioEnum">
3957     <xs:restriction base="xs:string">
3958         <xs:enumeration value="truckParking" />
3959         <xs:enumeration value="parkAndRide" />
3960         <xs:enumeration value="parkAndCycle" />
3961         <xs:enumeration value="parkAndWalk" />
3962         <xs:enumeration value="kissAndRide" />
3963         <xs:enumeration value="liftshare" />
3964         <xs:enumeration value="carSharing" />
3965         <xs:enumeration value="restArea" />
3966         <xs:enumeration value="serviceArea" />
3967         <xs:enumeration value="dropOffWithValet" />
3968         <xs:enumeration value="dropOffMechanical" />

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3949     <xs:enumeration value="eventParking" />
3950     <xs:enumeration value="automaticParkingGuidance" />
3951     <xs:enumeration value="staffGuidesToSpace" />
3952     <xs:enumeration value="vehicleLift" />
3953     <xs:enumeration value="loadingBay" />
3954     <xs:enumeration value="dropOff" />
3955     <xs:enumeration value="overnightParking" />
3956     <xs:enumeration value="unknown" />
3957     <xs:enumeration value="other" />
3958 </xs:restriction>
3959 </xs:simpleType>
3960 <xs:complexType name="ParkingUsageScenarioStatus">
3961     <xs:sequence>
3962         <xs:element name="usageScenarioOperationStatus"
3963             type="D2LogicalModel:OperationStatusEnum" minOccurs="1" maxOccurs="1" />
3964         <xs:element name="parkingUsageScenarioStatusExtension"
3965             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
3966     </xs:sequence>
3967 </xs:complexType>
3968 <xs:simpleType name="ParkingVacantSpacesEnum">
3969     <xs:restriction base="xs:string">
3970         <xs:enumeration value="noParkingSpacesAvailable" />
3971         <xs:enumeration value="expectNoSpacesAvailable" />
3972         <xs:enumeration value="onlyAFewSpacesAvailable" />
3973         <xs:enumeration value="lessThan10SpacesAvailable" />
3974         <xs:enumeration value="lessThan20SpacesAvailable" />
3975         <xs:enumeration value="lessThan30SpacesAvailable" />
3976         <xs:enumeration value="lessThan40SpacesAvailable" />
3977         <xs:enumeration value="lessThan50SpacesAvailable" />
3978         <xs:enumeration value="unknown" />
3979         <xs:enumeration value="other" />
3980     </xs:restriction>
3981 </xs:simpleType>
3982 <xs:complexType name="ParkingVehicle">
3983     <xs:sequence>
3984         <xs:element name="parkingRecordReference"
3985             type="D2LogicalModel:_ParkingRecordVersionedReference" minOccurs="1"
3986             maxOccurs="1" />
3987         <xs:element name="parkingSpaceReference" type="D2LogicalModel:IndexReference"
3988             minOccurs="0" maxOccurs="1" />
3989         <xs:element name="groupOfParkingSpacesReference"
3990             type="D2LogicalModel:IndexReference" minOccurs="0" maxOccurs="unbounded" />
3991         <xs:element name="parkingPermit" type="D2LogicalModel:ParkingPermit"
3992             minOccurs="0" maxOccurs="unbounded" />
3993         <xs:element name="vehicle" type="D2LogicalModel:Vehicle" />
3994         <xs:element name="individualCharge" type="D2LogicalModel:IndividualCharge"
3995             minOccurs="0" />
3996         <xs:element name="parkingPeriod" type="D2LogicalModel:OverallPeriod"
3997             minOccurs="0" />
3998         <xs:element name="parkingVehicleExtension"
3999             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4000     </xs:sequence>
4001     <xs:attribute name="id" type="xs:string" use="required" />
4002     <xs:attribute name="version" type="xs:string" use="required" />
4003 </xs:complexType>
4004 <xs:complexType name="ParkingVehiclesPublication">
4005     <xs:sequence>
4006         <xs:element name="parkingTableReference"
4007             type="D2LogicalModel:_ParkingTableVersionedReference" minOccurs="0"
4008             maxOccurs="unbounded" />
4009         <xs:element name="parkingVehicle" type="D2LogicalModel:ParkingVehicle"
4010             maxOccurs="unbounded" />
4011     </xs:sequence>
4012 </xs:complexType>
4013 <xs:complexType name="ParkingVMS">
4014     <xs:sequence>
4015         <xs:element name="vmsUnitUsedToManageParking"
4016             type="D2LogicalModel:_VmsUnitRecordVersionedReference" minOccurs="1"
4017             maxOccurs="1" />
4018         <xs:element name="vmsOperator" type="D2LogicalModel:Contact" minOccurs="0"
4019             maxOccurs="unbounded" />
4020         <xs:element name="parkingVMSExtension" type="D2LogicalModel:_ExtensionType"

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        minOccurs="0" />
4005     </xs:sequence>
4006 </xs:complexType>
4007 <xs:simpleType name="PassengerCarUnitsPerHour">
4008     <xs:restriction base="D2LogicalModel:NonNegativeInteger" />
4009 </xs:simpleType>
4010 <xs:complexType name="PayloadPublication" abstract="true">
4011     <xs:sequence>
4012         <xs:element name="feedDescription" type="D2LogicalModel:MultilingualString"
4013             minOccurs="0" maxOccurs="1" />
4014         <xs:element name="feedType" type="D2LogicalModel:String" minOccurs="0"
4015             maxOccurs="1" />
4016         <xs:element name="publicationTime" type="D2LogicalModel:DateTime"
4017             minOccurs="1" maxOccurs="1" />
4018         <xs:element name="publicationCreator"
4019             type="D2LogicalModel:InternationalIdentifier" />
4020         <xs:element name="payloadPublicationExtension"
4021             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4022     </xs:sequence>
4023     <xs:attribute name="lang" type="D2LogicalModel:Language" use="required" />
4024 </xs:complexType>
4025 <xs:simpleType name="PaymentCardBrandsEnum">
4026     <xs:restriction base="xs:string">
4027         <xs:enumeration value="americanExpress" />
4028         <xs:enumeration value="cirrus" />
4029         <xs:enumeration value="dinersClub" />
4030         <xs:enumeration value="discoverCard" />
4031         <xs:enumeration value="giroCard" />
4032         <xs:enumeration value="maestro" />
4033         <xs:enumeration value="masterCard" />
4034         <xs:enumeration value="visa" />
4035         <xs:enumeration value="vPay" />
4036         <xs:enumeration value="other" />
4037     </xs:restriction>
4038 </xs:simpleType>
4039 <xs:simpleType name="PaymentCardTypesEnum">
4040     <xs:restriction base="xs:string">
4041         <xs:enumeration value="creditCard" />
4042         <xs:enumeration value="debitCard" />
4043         <xs:enumeration value="chargeCard" />
4044         <xs:enumeration value="fleetCard" />
4045         <xs:enumeration value="storedValueCard" />
4046         <xs:enumeration value="other" />
4047     </xs:restriction>
4048 </xs:simpleType>
4049 <xs:complexType name="PcuFlowValue">
4050     <xs:complexContent>
4051         <xs:extension base="D2LogicalModel:DataValue">
4052             <xs:sequence>
4053                 <xs:element name="pcuFlowRate"
4054                     type="D2LogicalModel:PassengerCarUnitsPerHour" minOccurs="1" maxOccurs="1"
4055                     />
4056                 <xs:element name="pcuFlowValueExtension"
4057                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4058             </xs:sequence>
4059         </xs:extension>
4060     </xs:complexContent>
4061 </xs:complexType>
4062 <xs:simpleType name="Percentage">
4063     <xs:restriction base="D2LogicalModel:Float" />
4064 </xs:simpleType>
4065 <xs:complexType name="PercentageDistanceAlongLinearElement">
4066     <xs:complexContent>
4067         <xs:extension base="D2LogicalModel:DistanceAlongLinearElement">
4068             <xs:sequence>
4069                 <xs:element name="percentageDistanceAlong"
4070                     type="D2LogicalModel:Percentage" minOccurs="1" maxOccurs="1" />
4071                 <xs:element name="percentageDistanceAlongLinearElementExtension"
4072                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4073             </xs:sequence>
4074         </xs:extension>
4075     </xs:complexContent>

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4066 </xs:complexType>
4067 <xs:complexType name="PercentageValue">
4068   <xs:complexContent>
4069     <xs:extension base="D2LogicalModel:DataValue">
4070       <xs:sequence>
4071         <xs:element name="percentage" type="D2LogicalModel:Percentage"
4072           minOccurs="1" maxOccurs="1" />
4073         <xs:element name="percentageValueExtension"
4074           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4075       </xs:sequence>
4076     </xs:extension>
4077   </xs:complexContent>
4078 </xs:complexType>
4079 <xs:complexType name="Period">
4080   <xs:sequence>
4081     <xs:element name="startOfPeriod" type="D2LogicalModel:DateTime" minOccurs="0"
4082       maxOccurs="1" />
4083     <xs:element name="endOfPeriod" type="D2LogicalModel:DateTime" minOccurs="0"
4084       maxOccurs="1" />
4085     <xs:element name="periodName" type="D2LogicalModel:MultilingualString"
4086       minOccurs="0" maxOccurs="1" />
4087     <xs:element name="recurringTimePeriodOfDay"
4088       type="D2LogicalModel:TimePeriodOfDay" minOccurs="0" maxOccurs="unbounded" />
4089     <xs:element name="recurringDayWeekMonthPeriod"
4090       type="D2LogicalModel:DayWeekMonth" minOccurs="0" maxOccurs="unbounded" />
4091     <xs:element name="periodExtension" type="D2LogicalModel:_PeriodExtensionType"
4092       minOccurs="0" />
4093   </xs:sequence>
4094 </xs:complexType>
4095 <xs:complexType name="PeriodExtended">
4096   <xs:sequence>
4097     <xs:element name="recurringSpecialDay" type="D2LogicalModel:SpecialDay"
4098       minOccurs="0" maxOccurs="unbounded" />
4099   </xs:sequence>
4100 </xs:complexType>
4101 <xs:complexType name="PermitsAndProhibitions">
4102   <xs:sequence>
4103     <xs:element name="activity" type="D2LogicalModel:RestAreaActivityEnum"
4104       minOccurs="1" maxOccurs="1" />
4105     <xs:element name="regulation" type="D2LogicalModel:RegulationEnum"
4106       minOccurs="1" maxOccurs="1" />
4107     <xs:element name="permitsAndProhibitionsExtension"
4108       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4109   </xs:sequence>
4110 </xs:complexType>
4111 <xs:simpleType name="PermitTypeEnum">
4112   <xs:restriction base="xs:string">
4113     <xs:enumeration value="blueZonePermit" />
4114     <xs:enumeration value="careTakingPermit" />
4115     <xs:enumeration value="carpoolingPermit" />
4116     <xs:enumeration value="carSharingPermit" />
4117     <xs:enumeration value="disabledPermit" />
4118     <xs:enumeration value="emergencyVehiclePermit" />
4119     <xs:enumeration value="employeePermit" />
4120     <xs:enumeration value="fairPermit" />
4121     <xs:enumeration value="governmentPermit" />
4122     <xs:enumeration value="maintenanceVehiclePermit" />
4123     <xs:enumeration value="residentPermit" />
4124     <xs:enumeration value="roadWorksPermit" />
4125     <xs:enumeration value="specificIdentifiedVehiclePermit" />
4126     <xs:enumeration value="taxiPermit" />
4127     <xs:enumeration value="other" />
4128   </xs:restriction>
4129 </xs:simpleType>
4130 <xs:simpleType name="PersonCategoryEnum">
4131   <xs:restriction base="xs:string">
4132     <xs:enumeration value="adult" />
4133     <xs:enumeration value="child" />
4134     <xs:enumeration value="emergencyServicesPerson" />
4135     <xs:enumeration value="fireman" />
4136     <xs:enumeration value="infant" />
4137     <xs:enumeration value="medicalStaff" />

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4126     <xs:enumeration value="memberOfThePublic" />
4127     <xs:enumeration value="policeman" />
4128     <xs:enumeration value="politician" />
4129     <xs:enumeration value="publicTransportPassenger" />
4130     <xs:enumeration value="sickPerson" />
4131     <xs:enumeration value="trafficOfficer" />
4132     <xs:enumeration value="trafficWarden" />
4133     <xs:enumeration value="veryImportantPerson" />
4134 </xs:restriction>
4135 </xs:simpleType>
4136 <xs:simpleType name="PhysicalMountingEnum">
4137     <xs:restriction base="xs:string">
4138         <xs:enumeration value="centralReservationMounted" />
4139         <xs:enumeration value="gantryMounted" />
4140         <xs:enumeration value="overheadBridgeMounted" />
4141         <xs:enumeration value="roadsideCantileverMounted" />
4142         <xs:enumeration value="roadsideMounted" />
4143         <xs:enumeration value="trailerMounted" />
4144         <xs:enumeration value="tunnelEntranceMounted" />
4145         <xs:enumeration value="vehicleMounted" />
4146     </xs:restriction>
4147 </xs:simpleType>
4148 <xs:complexType name="PictogramDisplayAreaSettings">
4149     <xs:sequence>
4150         <xs:element name="pictogramLanternsOn" type="D2LogicalModel:Boolean"
4151             minOccurs="0" maxOccurs="1" />
4152         <xs:element name="pictogramLuminanceOverride" type="D2LogicalModel:Boolean"
4153             minOccurs="0" maxOccurs="1" />
4154         <xs:element name="pictogramLuminanceLevel"
4155             type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
4156         <xs:element name="pictogramLuminanceLevelName"
4157             type="D2LogicalModel:VmsLuminanceLevelEnum" minOccurs="0" maxOccurs="1" />
4158         <xs:element name="pictogramDisplayAreaSettingsExtension"
4159             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4160     </xs:sequence>
4161 </xs:complexType>
4162 <xs:simpleType name="PlacesEnum">
4163     <xs:restriction base="xs:string">
4164         <xs:enumeration value="aroundBendsInTheRoad" />
4165         <xs:enumeration value="atCustomsPosts" />
4166         <xs:enumeration value="atHighAltitudes" />
4167         <xs:enumeration value="atTollPlazas" />
4168         <xs:enumeration value="inBuiltUpAreas" />
4169         <xs:enumeration value="inContraflowSections" />
4170         <xs:enumeration value="inForestedAreas" />
4171         <xs:enumeration value="inGalleries" />
4172         <xs:enumeration value="inLowLyingAreas" />
4173         <xs:enumeration value="inRoadworksAreas" />
4174         <xs:enumeration value="inRuralAreas" />
4175         <xs:enumeration value="inShadedAreas" />
4176         <xs:enumeration value="inTheCityCentre" />
4177         <xs:enumeration value="inTheInnerCityAreas" />
4178         <xs:enumeration value="inTunnels" />
4179         <xs:enumeration value="onBridges" />
4180         <xs:enumeration value="onDownHillSections" />
4181         <xs:enumeration value="onDualCarriagewaySections" />
4182         <xs:enumeration value="onElevatedSections" />
4183         <xs:enumeration value="onEnteringOrLeavingTunnels" />
4184         <xs:enumeration value="onEnteringTheCountry" />
4185         <xs:enumeration value="onFlyovers" />
4186         <xs:enumeration value="onLeavingTheCountry" />
4187         <xs:enumeration value="onMotorways" />
4188         <xs:enumeration value="onNonMotorways" />
4189         <xs:enumeration value="onPasses" />
4190         <xs:enumeration value="onRoundabouts" />
4191         <xs:enumeration value="onSingleCarriagewaySections" />
4192         <xs:enumeration value="onSlipRoads" />
4193         <xs:enumeration value="onUndergroundSections" />
4194         <xs:enumeration value="onUnderpasses" />
4195         <xs:enumeration value="onUpHillSections" />
4196         <xs:enumeration value="overTheCrestOfHills" />
4197         <xs:enumeration value="other" />

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4193     </xs:restriction>
4194 </xs:simpleType>
4195 <xs:complexType name="Point">
4196     <xs:complexContent>
4197         <xs:extension base="D2LogicalModel:NetworkLocation">
4198             <xs:sequence>
4199                 <xs:element name="tpegPointLocation"
4200                     type="D2LogicalModel:TpegPointLocation" minOccurs="0" />
4201                 <xs:element name="alertCPoint" type="D2LogicalModel:AlertCPoint"
4202                     minOccurs="0" />
4203                 <xs:element name="pointAlongLinearElement"
4204                     type="D2LogicalModel:PointAlongLinearElement" minOccurs="0" />
4205                 <xs:element name="pointByCoordinates"
4206                     type="D2LogicalModel:PointByCoordinates" minOccurs="0" />
4207                 <xs:element name="pointExtension"
4208                     type="D2LogicalModel:_PointExtensionType" minOccurs="0" />
4209             </xs:sequence>
4210         </xs:extension>
4211     </xs:complexContent>
4212 </xs:complexType>
4213 <xs:complexType name="PointAlongLinearElement">
4214     <xs:sequence>
4215         <xs:element name="administrativeAreaOfPoint"
4216             type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
4217         <xs:element name="directionBoundAtPoint" type="D2LogicalModel:DirectionEnum"
4218             minOccurs="0" maxOccurs="1" />
4219         <xs:element name="directionRelativeAtPoint"
4220             type="D2LogicalModel:LinearReferencingDirectionEnum" minOccurs="0"
4221             maxOccurs="1" />
4222         <xs:element name="heightGradeOfPoint" type="D2LogicalModel:HeightGradeEnum"
4223             minOccurs="0" maxOccurs="1" />
4224         <xs:element name="linearElement" type="D2LogicalModel:LinearElement" />
4225         <xs:element name="distanceAlongLinearElement"
4226             type="D2LogicalModel:DistanceAlongLinearElement" />
4227         <xs:element name="pointAlongLinearElementExtension"
4228             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4229     </xs:sequence>
4230 </xs:complexType>
4231 <xs:complexType name="PointByCoordinates">
4232     <xs:sequence>
4233         <xs:element name="bearing" type="D2LogicalModel:NonNegativeInteger"
4234             minOccurs="0" maxOccurs="1" />
4235         <xs:element name="pointCoordinates" type="D2LogicalModel:PointCoordinates" />
4236         <xs:element name="pointByCoordinatesExtension"
4237             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4238     </xs:sequence>
4239 </xs:complexType>
4240 <xs:complexType name="PointCoordinates">
4241     <xs:sequence>
4242         <xs:element name="latitude" type="D2LogicalModel:Float" minOccurs="1"
4243             maxOccurs="1" />
4244         <xs:element name="longitude" type="D2LogicalModel:Float" minOccurs="1"
4245             maxOccurs="1" />
4246         <xs:element name="pointCoordinatesExtension"
4247             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4248     </xs:sequence>
4249 </xs:complexType>
4250 <xs:complexType name="PointDestination">
4251     <xs:complexContent>
4252         <xs:extension base="D2LogicalModel:Destination">
4253             <xs:sequence>
4254                 <xs:element name="point" type="D2LogicalModel:Point" />
4255                 <xs:element name="pointDestinationExtension"
4256                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4257             </xs:sequence>
4258         </xs:extension>
4259     </xs:complexContent>
4260 </xs:complexType>
4261 <xs:complexType name="PointExtended">
4262     <xs:sequence>
4263         <xs:element name="description" type="D2LogicalModel:MultilingualString"
4264             minOccurs="0" maxOccurs="1" />

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4246     <xs:element name="junction" type="D2LogicalModel:Junction" minOccurs="0" />
4247   </xs:sequence>
4248 </xs:complexType>
4249 <xs:simpleType name="PollutantTypeEnum">
4250   <xs:restriction base="xs:string">
4251     <xs:enumeration value="benzeneTolueneXylene" />
4252     <xs:enumeration value="carbonMonoxide" />
4253     <xs:enumeration value="lead" />
4254     <xs:enumeration value="methane" />
4255     <xs:enumeration value="nitricOxide" />
4256     <xs:enumeration value="nitrogenDioxide" />
4257     <xs:enumeration value="nitrogenMonoxide" />
4258     <xs:enumeration value="nitrogenOxides" />
4259     <xs:enumeration value="nonMethaneHydrocarbons" />
4260     <xs:enumeration value="ozone" />
4261     <xs:enumeration value="particulates10" />
4262     <xs:enumeration value="polycyclicAromaticHydrocarbons" />
4263     <xs:enumeration value="primaryParticulate" />
4264     <xs:enumeration value="sulphurDioxide" />
4265     <xs:enumeration value="totalHydrocarbons" />
4266   </xs:restriction>
4267 </xs:simpleType>
4268 <xs:complexType name="Pollution">
4269   <xs:sequence>
4270     <xs:element name="pollutantType" type="D2LogicalModel:PollutantTypeEnum"
4271       minOccurs="1" maxOccurs="1" />
4272     <xs:element name="pollutantConcentration"
4273       type="D2LogicalModel:MicrogramsConcentrationValue" minOccurs="0" />
4274     <xs:element name="pollutionExtension" type="D2LogicalModel:_ExtensionType"
4275       minOccurs="0" />
4276   </xs:sequence>
4277 </xs:complexType>
4278 <xs:complexType name="PollutionInformation">
4279   <xs:complexContent>
4280     <xs:extension base="D2LogicalModel:WeatherData">
4281       <xs:sequence>
4282         <xs:element name="pollution" type="D2LogicalModel:Pollution"
4283           maxOccurs="unbounded" />
4284         <xs:element name="pollutionInformationExtension"
4285           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4286       </xs:sequence>
4287     </xs:extension>
4288   </xs:complexContent>
4289 </xs:complexType>
4290 <xs:complexType name="PolygonArea">
4291   <xs:sequence>
4292     <xs:element name="sectionName" type="D2LogicalModel:MultilingualString"
4293       minOccurs="0" maxOccurs="1" />
4294     <xs:element name="pointCoordinates"
4295       type="D2LogicalModel:_PolygonAreaIndexPointCoordinates" minOccurs="0"
4296       maxOccurs="unbounded" />
4297     <xs:element name="polygonAreaExtension" type="D2LogicalModel:_ExtensionType"
4298       minOccurs="0" />
4299   </xs:sequence>
4300 </xs:complexType>
4301 <xs:complexType name="PoorEnvironmentConditions">
4302   <xs:complexContent>
4303     <xs:extension base="D2LogicalModel:Conditions">
4304       <xs:sequence>
4305         <xs:element name="poorEnvironmentType"
4306           type="D2LogicalModel:PoorEnvironmentTypeEnum" minOccurs="1"
4307           maxOccurs="unbounded" />
4308         <xs:element name="precipitationDetail"
4309           type="D2LogicalModel:PrecipitationDetail" minOccurs="0" />
4310         <xs:element name="visibility" type="D2LogicalModel:Visibility"
4311           minOccurs="0" />
4312         <xs:element name="pollution" type="D2LogicalModel:Pollution" minOccurs="0"
4313           />
4314         <xs:element name="temperature" type="D2LogicalModel:Temperature"
4315           minOccurs="0" />
4316         <xs:element name="wind" type="D2LogicalModel:Wind" minOccurs="0" />
4317         <xs:element name="humidity" type="D2LogicalModel:Humidity" minOccurs="0" />

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4303         <xs:element name="poorEnvironmentConditionsExtension"
4304             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4305     </xs:sequence>
4306 </xs:complexContent>
4307 </xs:complexType>
4308 <xs:simpleType name="PoorEnvironmentTypeEnum">
4309     <xs:restriction base="xs:string">
4310         <xs:enumeration value="badWeather" />
4311         <xs:enumeration value="blizzard" />
4312         <xs:enumeration value="blowingDust" />
4313         <xs:enumeration value="blowingSnow" />
4314         <xs:enumeration value="crosswinds" />
4315         <xs:enumeration value="damagingHail" />
4316         <xs:enumeration value="denseFog" />
4317         <xs:enumeration value="eclipse" />
4318         <xs:enumeration value="extremeCold" />
4319         <xs:enumeration value="extremeHeat" />
4320         <xs:enumeration value="fog" />
4321         <xs:enumeration value="freezingFog" />
4322         <xs:enumeration value="frost" />
4323         <xs:enumeration value="gales" />
4324         <xs:enumeration value="gustyWinds" />
4325         <xs:enumeration value="hail" />
4326         <xs:enumeration value="heavyFrost" />
4327         <xs:enumeration value="heavyRain" />
4328         <xs:enumeration value="heavySnowfall" />
4329         <xs:enumeration value="hurricaneForceWinds" />
4330         <xs:enumeration value="lowSunGlare" />
4331         <xs:enumeration value="moderateFog" />
4332         <xs:enumeration value="ozonePollution" />
4333         <xs:enumeration value="pollution" />
4334         <xs:enumeration value="patchyFog" />
4335         <xs:enumeration value="precipitationInTheArea" />
4336         <xs:enumeration value="rain" />
4337         <xs:enumeration value="rainChangingToSnow" />
4338         <xs:enumeration value="sandStorms" />
4339         <xs:enumeration value="severeExhaustPollution" />
4340         <xs:enumeration value="severeSmog" />
4341         <xs:enumeration value="showers" />
4342         <xs:enumeration value="sleet" />
4343         <xs:enumeration value="smogAlert" />
4344         <xs:enumeration value="smokeHazard" />
4345         <xs:enumeration value="snowChangingToRain" />
4346         <xs:enumeration value="snowfall" />
4347         <xs:enumeration value="sprayHazard" />
4348         <xs:enumeration value="stormForceWinds" />
4349         <xs:enumeration value="strongGustsOfWind" />
4350         <xs:enumeration value="strongWinds" />
4351         <xs:enumeration value="swarmsOfInsects" />
4352         <xs:enumeration value="temperatureFalling" />
4353         <xs:enumeration value="thunderstorms" />
4354         <xs:enumeration value="tornadoes" />
4355         <xs:enumeration value="veryStrongGustsOfWind" />
4356         <xs:enumeration value="visibilityReduced" />
4357         <xs:enumeration value="whiteOut" />
4358         <xs:enumeration value="winterStorm" />
4359     </xs:restriction>
4360 </xs:simpleType>
4361 <xs:simpleType name="PositionAbsoluteEnum">
4362     <xs:restriction base="xs:string">
4363         <xs:enumeration value="onLeft" />
4364         <xs:enumeration value="onRight" />
4365         <xs:enumeration value="atTop" />
4366         <xs:enumeration value="atBottom" />
4367     </xs:restriction>
4368 </xs:simpleType>
4369 <xs:simpleType name="PositionRelativeEnum">
4370     <xs:restriction base="xs:string">
4371         <xs:enumeration value="above" />
4372         <xs:enumeration value="below" />
4373         <xs:enumeration value="toTheLeft" />

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4374         <xs:enumeration value="toTheRight" />
4375     </xs:restriction>
4376 </xs:simpleType>
4377 <xs:complexType name="PrecipitationDetail">
4378     <xs:sequence>
4379         <xs:element name="precipitationType"
4380             type="D2LogicalModel:PrecipitationTypeEnum" minOccurs="0" maxOccurs="1" />
4381         <xs:element name="precipitationIntensity"
4382             type="D2LogicalModel:PrecipitationIntensityValue" minOccurs="0" />
4383         <xs:element name="depositionDepth"
4384             type="D2LogicalModel:FloatingPointMetreDistanceValue" minOccurs="0" />
4385         <xs:element name="precipitationDetailExtension"
4386             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4387     </xs:sequence>
4388 </xs:complexType>
4389 <xs:complexType name="PrecipitationInformation">
4390     <xs:complexContent>
4391         <xs:extension base="D2LogicalModel:WeatherData">
4392             <xs:sequence>
4393                 <xs:element name="noPrecipitation" type="D2LogicalModel:Boolean"
4394                     minOccurs="0" maxOccurs="1" />
4395                 <xs:element name="precipitationDetail"
4396                     type="D2LogicalModel:PrecipitationDetail" minOccurs="0" />
4397                 <xs:element name="precipitationInformationExtension"
4398                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4399             </xs:sequence>
4400         </xs:extension>
4401     </xs:complexContent>
4402 </xs:complexType>
4403 <xs:complexType name="PrecipitationIntensityValue">
4404     <xs:complexContent>
4405         <xs:extension base="D2LogicalModel:DataValue">
4406             <xs:sequence>
4407                 <xs:element name="millimetresPerHourIntensity"
4408                     type="D2LogicalModel:IntensityMillimetresPerHour" minOccurs="1"
4409                     maxOccurs="1" />
4410                 <xs:element name="precipitationIntensityValueExtension"
4411                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4412             </xs:sequence>
4413         </xs:extension>
4414     </xs:complexContent>
4415 </xs:complexType>
4416 <xs:simpleType name="PrecipitationTypeEnum">
4417     <xs:restriction base="xs:string">
4418         <xs:enumeration value="drizzle" />
4419         <xs:enumeration value="freezingRain" />
4420         <xs:enumeration value="hail" />
4421         <xs:enumeration value="rain" />
4422         <xs:enumeration value="sleet" />
4423         <xs:enumeration value="snow" />
4424     </xs:restriction>
4425 </xs:simpleType>
4426 <xs:complexType name="PredefinedItinerary">
4427     <xs:complexContent>
4428         <xs:extension base="D2LogicalModel:PredefinedLocationContainer">
4429             <xs:sequence>
4430                 <xs:element name="predefinedItineraryName"
4431                     type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
4432                 <xs:element name="predefinedLocation"
4433                     type="D2LogicalModel:_PredefinedItineraryIndexPredefinedLocation"
4434                     minOccurs="0" maxOccurs="unbounded" />
4435                 <xs:element name="predefinedItineraryExtension"
4436                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4437             </xs:sequence>
4438             <xs:attribute name="id" type="xs:string" use="required" />
4439             <xs:attribute name="version" type="xs:string" use="required" />
4440         </xs:extension>
4441     </xs:complexContent>
4442 </xs:complexType>
4443 <xs:complexType name="PredefinedLocation">
4444     <xs:complexContent>
4445         <xs:extension base="D2LogicalModel:PredefinedLocationContainer">

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4432     <xs:sequence>
4433         <xs:element name="predefinedLocationName"
4434             type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
4435         <xs:element name="location" type="D2LogicalModel:Location" />
4436         <xs:element name="predefinedLocationExtension"
4437             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4438     </xs:sequence>
4439     <xs:attribute name="id" type="xs:string" use="required" />
4440     <xs:attribute name="version" type="xs:string" use="required" />
4441 </xs:extension>
4442 </xs:complexContent>
4443 </xs:complexType>
4444 <xs:complexType name="PredefinedLocationContainer" abstract="true">
4445     <xs:sequence>
4446         <xs:element name="predefinedLocationContainerExtension"
4447             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4448     </xs:sequence>
4449 </xs:complexType>
4450 <xs:complexType name="PredefinedLocationsPublication">
4451     <xs:complexContent>
4452         <xs:extension base="D2LogicalModel:PayloadPublication">
4453             <xs:sequence>
4454                 <xs:element name="headerInformation"
4455                     type="D2LogicalModel:HeaderInformation" />
4456                 <xs:element name="predefinedLocationContainer"
4457                     type="D2LogicalModel:PredefinedLocationContainer" maxOccurs="unbounded" />
4458                 <xs:element name="predefinedLocationsPublicationExtension"
4459                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4460             </xs:sequence>
4461         </xs:extension>
4462     </xs:complexContent>
4463 </xs:complexType>
4464 <xs:complexType name="PredefinedNonOrderedLocationGroup">
4465     <xs:complexContent>
4466         <xs:extension base="D2LogicalModel:PredefinedLocationContainer">
4467             <xs:sequence>
4468                 <xs:element name="predefinedNonOrderedLocationGroupName"
4469                     type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
4470                 <xs:element name="predefinedLocation"
4471                     type="D2LogicalModel:PredefinedLocation" minOccurs="2"
4472                     maxOccurs="unbounded" />
4473                 <xs:element name="predefinedNonOrderedLocationGroupExtension"
4474                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4475             </xs:sequence>
4476             <xs:attribute name="id" type="xs:string" use="required" />
4477             <xs:attribute name="version" type="xs:string" use="required" />
4478         </xs:extension>
4479     </xs:complexContent>
4480 </xs:complexType>
4481 <xs:simpleType name="ProbabilityOfOccurrenceEnum">
4482     <xs:restriction base="xs:string">
4483         <xs:enumeration value="certain" />
4484         <xs:enumeration value="probable" />
4485         <xs:enumeration value="riskOf" />
4486     </xs:restriction>
4487 </xs:simpleType>
4488 <xs:complexType name="PublicEvent">
4489     <xs:complexContent>
4490         <xs:extension base="D2LogicalModel:Activity">
4491             <xs:sequence>
4492                 <xs:element name="publicEventType"
4493                     type="D2LogicalModel:PublicEventTypeEnum" minOccurs="1" maxOccurs="1" />
4494                 <xs:element name="publicEventExtension"
4495                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4496             </xs:sequence>
4497         </xs:extension>
4498     </xs:complexContent>
4499 </xs:complexType>
4500 <xs:simpleType name="PublicEventType2Enum">
4501     <xs:restriction base="xs:string">
4502         <xs:enumeration value="openAirConcert" />
4503         <xs:enumeration value="soundAndLightShow" />

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4492     <xs:enumeration value="artEvent" />
4493     <xs:enumeration value="flowerEvent" />
4494     <xs:enumeration value="beerFestival" />
4495     <xs:enumeration value="foodFestival" />
4496     <xs:enumeration value="wineFestival" />
4497     <xs:enumeration value="theatricalEvent" />
4498     <xs:enumeration value="fireworkDisplay" />
4499     <xs:enumeration value="streetFestival" />
4500     <xs:enumeration value="filmFestival" />
4501     <xs:enumeration value="unknown" />
4502     <xs:enumeration value="other" />
4503 </xs:restriction>
4504 </xs:simpleType>
4505 <xs:simpleType name="PublicEventTypeEnum">
4506     <xs:restriction base="xs:string">
4507         <xs:enumeration value="agriculturalShow" />
4508         <xs:enumeration value="airShow" />
4509         <xs:enumeration value="athleticsMeeting" />
4510         <xs:enumeration value="commercialEvent" />
4511         <xs:enumeration value="culturalEvent" />
4512         <xs:enumeration value="ballGame" />
4513         <xs:enumeration value="baseballGame" />
4514         <xs:enumeration value="basketballGame" />
4515         <xs:enumeration value="bicycleRace" />
4516         <xs:enumeration value="boatRace" />
4517         <xs:enumeration value="boatShow" />
4518         <xs:enumeration value="boxingTournament" />
4519         <xs:enumeration value="bullFight" />
4520         <xs:enumeration value="ceremonialEvent" />
4521         <xs:enumeration value="concert" />
4522         <xs:enumeration value="cricketMatch" />
4523         <xs:enumeration value="exhibition" />
4524         <xs:enumeration value="fair" />
4525         <xs:enumeration value="festival" />
4526         <xs:enumeration value="filmTVMaking" />
4527         <xs:enumeration value="footballMatch" />
4528         <xs:enumeration value="funfair" />
4529         <xs:enumeration value="gardeningOrFlowerShow" />
4530         <xs:enumeration value="golfTournament" />
4531         <xs:enumeration value="hockeyGame" />
4532         <xs:enumeration value="horseRaceMeeting" />
4533         <xs:enumeration value="internationalSportsMeeting" />
4534         <xs:enumeration value="majorEvent" />
4535         <xs:enumeration value="marathon" />
4536         <xs:enumeration value="market" />
4537         <xs:enumeration value="match" />
4538         <xs:enumeration value="motorShow" />
4539         <xs:enumeration value="motorSportRaceMeeting" />
4540         <xs:enumeration value="parade" />
4541         <xs:enumeration value="procession" />
4542         <xs:enumeration value="raceMeeting" />
4543         <xs:enumeration value="rugbyMatch" />
4544         <xs:enumeration value="severalMajorEvents" />
4545         <xs:enumeration value="show" />
4546         <xs:enumeration value="showJumping" />
4547         <xs:enumeration value="sportsMeeting" />
4548         <xs:enumeration value="stateOccasion" />
4549         <xs:enumeration value="tennisTournament" />
4550         <xs:enumeration value="tournament" />
4551         <xs:enumeration value="tradeFair" />
4552         <xs:enumeration value="waterSportsMeeting" />
4553         <xs:enumeration value="winterSportsMeeting" />
4554         <xs:enumeration value="other" />
4555     </xs:restriction>
4556 </xs:simpleType>
4557 <xs:complexType name="PublicHoliday">
4558     <xs:sequence>
4559         <xs:element name="country" type="D2LogicalModel:CountryEnum" minOccurs="1"
4560             maxOccurs="1" />
4561         <xs:element name="countrySubdivision" type="D2LogicalModel:String"
4562             minOccurs="0" maxOccurs="1" />
4563         <xs:element name="region" type="D2LogicalModel:MultilingualString"

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4562         minOccurs="0" maxOccurs="1" />
4563     <xs:element name="publicHolidayType"
4564         type="D2LogicalModel:PublicHolidayTypeEnum" minOccurs="1" maxOccurs="1" />
4565     <xs:element name="publicHolidayName" type="D2LogicalModel:MultilingualString"
4566         minOccurs="0" maxOccurs="1" />
4567     <xs:element name="publicHolidayExtension" type="D2LogicalModel:_ExtensionType"
4568         minOccurs="0" />
4569 </xs:sequence>
4570 </xs:complexType>
4571 <xs:simpleType name="PublicHolidayTypeEnum">
4572     <xs:restriction base="xs:string">
4573         <xs:enumeration value="betweenChristmasAndNewYear" />
4574         <xs:enumeration value="boxingDay" />
4575         <xs:enumeration value="bridgeHoliday" />
4576         <xs:enumeration value="christmasEve" />
4577         <xs:enumeration value="christmasDayAndBoxingDay" />
4578         <xs:enumeration value="christmasHolidayPeriod" />
4579         <xs:enumeration value="dayFollowingPublicHoliday" />
4580         <xs:enumeration value="easterFridayHoliday" />
4581         <xs:enumeration value="easterHolidayPeriod" />
4582         <xs:enumeration value="easterMondayHoliday" />
4583         <xs:enumeration value="easterSaturday" />
4584         <xs:enumeration value="easterSunday" />
4585         <xs:enumeration value="eveOfPublicHoliday" />
4586         <xs:enumeration value="holidayPeriod" />
4587         <xs:enumeration value="inLieuOfPublicHoliday" />
4588         <xs:enumeration value="january2ndHoliday" />
4589         <xs:enumeration value="newYearsDay" />
4590         <xs:enumeration value="newYearsEve" />
4591         <xs:enumeration value="notPublicHoliday" />
4592         <xs:enumeration value="publicHoliday" />
4593         <xs:enumeration value="other" />
4594     </xs:restriction>
4595 </xs:simpleType>
4596 <xs:complexType name="Reference">
4597     <xs:attribute name="id" type="xs:string" use="required" />
4598 </xs:complexType>
4599 <xs:complexType name="ReferenceSettings">
4600     <xs:sequence>
4601         <xs:element name="predefinedNonOrderedLocationGroupReference"
4602             type="D2LogicalModel:_PredefinedNonOrderedLocationGroupVersionedReference"
4603             minOccurs="0" maxOccurs="1" />
4604         <xs:element name="trafficStatusDefault"
4605             type="D2LogicalModel:TrafficStatusEnum" minOccurs="0" maxOccurs="1" />
4606         <xs:element name="referenceSettingsExtension"
4607             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4608     </xs:sequence>
4609 </xs:complexType>
4610 <xs:complexType name="Referent">
4611     <xs:sequence>
4612         <xs:element name="referentIdentifier" type="D2LogicalModel:String"
4613             minOccurs="1" maxOccurs="1" />
4614         <xs:element name="referentName" type="D2LogicalModel:String" minOccurs="0"
4615             maxOccurs="1" />
4616         <xs:element name="referentType" type="D2LogicalModel:ReferentTypeEnum"
4617             minOccurs="1" maxOccurs="1" />
4618         <xs:element name="referentDescription"
4619             type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
4620         <xs:element name="pointCoordinates" type="D2LogicalModel:PointCoordinates"
4621             minOccurs="0" />
4622         <xs:element name="referentExtension" type="D2LogicalModel:_ExtensionType"
4623             minOccurs="0" />
4624     </xs:sequence>
4625 </xs:complexType>
4626 <xs:simpleType name="ReferentTypeEnum">
4627     <xs:restriction base="xs:string">
4628         <xs:enumeration value="boundary" />
4629         <xs:enumeration value="intersection" />
4630         <xs:enumeration value="referenceMarker" />
4631         <xs:enumeration value="landmark" />
4632         <xs:enumeration value="roadNode" />
4633     </xs:restriction>

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4620 </xs:simpleType>
4621 <xs:simpleType name="RegulationEnum">
4622   <xs:restriction base="xs:string">
4623     <xs:enumeration value="permitted" />
4624     <xs:enumeration value="prohibited" />
4625     <xs:enumeration value="punishable" />
4626     <xs:enumeration value="seasonalHeterogeneous" />
4627     <xs:enumeration value="permittedOnlyAtParticularTimes" />
4628     <xs:enumeration value="permittedOnlyOnParticularAreas" />
4629     <xs:enumeration value="prohibitedAtParticularTimes" />
4630     <xs:enumeration value="prohibitedOnParticularAreas" />
4631     <xs:enumeration value="onlyOnRequest" />
4632     <xs:enumeration value="heterogeneous" />
4633     <xs:enumeration value="onlyOutsideBuildings" />
4634     <xs:enumeration value="onlyInsideBuildings" />
4635     <xs:enumeration value="unspecified" />
4636     <xs:enumeration value="unknown" />
4637     <xs:enumeration value="other" />
4638   </xs:restriction>
4639 </xs:simpleType>
4640 <xs:simpleType name="RelativeTrafficFlowEnum">
4641   <xs:restriction base="xs:string">
4642     <xs:enumeration value="trafficVeryMuchHeavierThanNormal" />
4643     <xs:enumeration value="trafficHeavierThanNormal" />
4644     <xs:enumeration value="trafficFlowNormal" />
4645     <xs:enumeration value="trafficLighterThanNormal" />
4646     <xs:enumeration value="trafficVeryMuchLighterThanNormal" />
4647   </xs:restriction>
4648 </xs:simpleType>
4649 <xs:simpleType name="RequestTypeEnum">
4650   <xs:restriction base="xs:string">
4651     <xs:enumeration value="catalogue" />
4652     <xs:enumeration value="filter" />
4653     <xs:enumeration value="requestData" />
4654     <xs:enumeration value="requestHistoricalData" />
4655     <xs:enumeration value="subscription" />
4656   </xs:restriction>
4657 </xs:simpleType>
4658 <xs:complexType name="ReroutingManagement">
4659   <xs:complexContent>
4660     <xs:extension base="D2LogicalModel:NetworkManagement">
4661       <xs:sequence>
4662         <xs:element name="reroutingManagementType"
4663           type="D2LogicalModel:ReroutingManagementTypeEnum" minOccurs="1"
4664           maxOccurs="unbounded" />
4665         <xs:element name="reroutingItineraryDescription"
4666           type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
4667         <xs:element name="signedRerouting" type="D2LogicalModel:Boolean"
4668           minOccurs="0" maxOccurs="1" />
4669         <xs:element name="entry" type="D2LogicalModel:String" minOccurs="0"
4670           maxOccurs="1" />
4671         <xs:element name="exit" type="D2LogicalModel:String" minOccurs="0"
4672           maxOccurs="1" />
4673         <xs:element name="roadOrJunctionNumber" type="D2LogicalModel:String"
4674           minOccurs="0" maxOccurs="1" />
4675         <xs:element name="alternativeRoute" type="D2LogicalModel:Itinerary"
4676           minOccurs="0" maxOccurs="unbounded" />
4677         <xs:element name="reroutingManagementExtension"
4678           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4679       </xs:sequence>
4680     </xs:extension>
4681   </xs:complexContent>
4682 </xs:complexType>
4683 <xs:simpleType name="ReroutingManagementTypeEnum">
4684   <xs:restriction base="xs:string">
4685     <xs:enumeration value="doNotFollowDiversionSigns" />
4686     <xs:enumeration value="doNotUseEntry" />
4687     <xs:enumeration value="doNotUseExit" />
4688     <xs:enumeration value="doNotUseIntersectionOrJunction" />
4689     <xs:enumeration value="followDiversionSigns" />
4690     <xs:enumeration value="followLocalDiversion" />
4691     <xs:enumeration value="followSpecialMarkers" />

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4683     <xs:enumeration value="useEntry" />
4684     <xs:enumeration value="useExit" />
4685     <xs:enumeration value="useIntersectionOrJunction" />
4686 </xs:restriction>
4687 </xs:simpleType>
4688 <xs:simpleType name="ReservationTypeEnum">
4689     <xs:restriction base="xs:string">
4690         <xs:enumeration value="optional" />
4691         <xs:enumeration value="mandatory" />
4692         <xs:enumeration value="notAvailable" />
4693         <xs:enumeration value="partly" />
4694         <xs:enumeration value="unknown" />
4695         <xs:enumeration value="unspecified" />
4696     </xs:restriction>
4697 </xs:simpleType>
4698 <xs:simpleType name="ResponseEnum">
4699     <xs:restriction base="xs:string">
4700         <xs:enumeration value="acknowledge" />
4701         <xs:enumeration value="catalogueRequestDenied" />
4702         <xs:enumeration value="filterRequestDenied" />
4703         <xs:enumeration value="requestDenied" />
4704         <xs:enumeration value="subscriptionRequestDenied" />
4705     </xs:restriction>
4706 </xs:simpleType>
4707 <xs:simpleType name="RestAreaActivityEnum">
4708     <xs:restriction base="xs:string">
4709         <xs:enumeration value="openFire" />
4710         <xs:enumeration value="overnightParking" />
4711         <xs:enumeration value="picnic" />
4712         <xs:enumeration value="smoking" />
4713         <xs:enumeration value="camping" />
4714         <xs:enumeration value="handlingHazardousMaterial" />
4715         <xs:enumeration value="barbecue" />
4716         <xs:enumeration value="other" />
4717     </xs:restriction>
4718 </xs:simpleType>
4719 <xs:complexType name="RGBColour">
4720     <xs:sequence>
4721         <xs:element name="rgbRedValue" type="D2LogicalModel:NonNegativeInteger"
4722             minOccurs="1" maxOccurs="1" />
4723         <xs:element name="rgbGreenValue" type="D2LogicalModel:NonNegativeInteger"
4724             minOccurs="1" maxOccurs="1" />
4725         <xs:element name="rgbBlueValue" type="D2LogicalModel:NonNegativeInteger"
4726             minOccurs="1" maxOccurs="1" />
4727         <xs:element name="colourName" type="D2LogicalModel:MultilingualString"
4728             minOccurs="0" maxOccurs="1" />
4729         <xs:element name="rgbColourExtension" type="D2LogicalModel:_ExtensionType"
4730             minOccurs="0" />
4731     </xs:sequence>
4732 </xs:complexType>
4733 <xs:complexType name="Road">
4734     <xs:sequence>
4735         <xs:element name="nameOfRoad" type="D2LogicalModel:MultilingualString"
4736             minOccurs="0" maxOccurs="1" />
4737         <xs:element name="roadIdentifier" type="D2LogicalModel:MultilingualString"
4738             minOccurs="0" maxOccurs="1" />
4739         <xs:element name="typeOfRoad" type="D2LogicalModel:RoadTypeEnum" minOccurs="0"
4740             maxOccurs="1" />
4741         <xs:element name="roadDestination" type="D2LogicalModel:MultilingualString"
4742             minOccurs="0" maxOccurs="unbounded" />
4743         <xs:element name="roadOrigination" type="D2LogicalModel:MultilingualString"
4744             minOccurs="0" maxOccurs="unbounded" />
4745         <xs:element name="distanceToThisRoad"
4746             type="D2LogicalModel:MetresAsNonNegativeInteger" minOccurs="0" maxOccurs="1" />
4747         <xs:element name="roadExtension" type="D2LogicalModel:_ExtensionType"
4748             minOccurs="0" />
4749     </xs:sequence>
4750 </xs:complexType>
4751 <xs:complexType name="RoadConditions" abstract="true">
4752     <xs:complexContent>
4753         <xs:extension base="D2LogicalModel:Conditions">
4754             <xs:sequence>

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4743         <xs:element name="roadConditionsExtension"
4744             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4745     </xs:sequence>
4746 </xs:extension>
4747 </xs:complexContent>
4748 </xs:complexType>
4749 <xs:simpleType name="RoadMaintenanceTypeEnum">
4750     <xs:restriction base="xs:string">
4751         <xs:enumeration value="clearanceWork" />
4752         <xs:enumeration value="controlledAvalanche" />
4753         <xs:enumeration value="installationWork" />
4754         <xs:enumeration value="grassCuttingWork" />
4755         <xs:enumeration value="litterClearance" />
4756         <xs:enumeration value="maintenanceWork" />
4757         <xs:enumeration value="overheadWorks" />
4758         <xs:enumeration value="repairWork" />
4759         <xs:enumeration value="resurfacingWork" />
4760         <xs:enumeration value="roadMarkingWork" />
4761         <xs:enumeration value="roadsideWork" />
4762         <xs:enumeration value="roadworksClearance" />
4763         <xs:enumeration value="roadworks" />
4764         <xs:enumeration value="rockFallPreventativeMaintenance" />
4765         <xs:enumeration value="saltingInProgress" />
4766         <xs:enumeration value="snowploughsInUse" />
4767         <xs:enumeration value="sweepingOfRoad" />
4768         <xs:enumeration value="treeAndVegetationCuttingWork" />
4769         <xs:enumeration value="other" />
4770     </xs:restriction>
4771 </xs:simpleType>
4772 <xs:complexType name="RoadNode">
4773     <xs:complexContent>
4774         <xs:extension base="D2LogicalModel:Road">
4775             <xs:sequence>
4776                 <xs:element name="junctionName" type="D2LogicalModel:MultilingualString"
4777                     minOccurs="1" maxOccurs="1" />
4778                 <xs:element name="roadNodeExtension" type="D2LogicalModel:_ExtensionType"
4779                     minOccurs="0" />
4780             </xs:sequence>
4781         </xs:extension>
4782     </xs:complexContent>
4783 </xs:complexType>
4784 <xs:complexType name="RoadOperatorServiceDisruption">
4785     <xs:complexContent>
4786         <xs:extension base="D2LogicalModel:NonRoadEventInformation">
4787             <xs:sequence>
4788                 <xs:element name="roadOperatorServiceDisruptionType"
4789                     type="D2LogicalModel:RoadOperatorServiceDisruptionTypeEnum" minOccurs="1"
4790                     maxOccurs="unbounded" />
4791                 <xs:element name="roadOperatorServiceDisruptionExtension"
4792                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4793             </xs:sequence>
4794         </xs:extension>
4795     </xs:complexContent>
4796 </xs:complexType>
4797 <xs:simpleType name="RoadOperatorServiceDisruptionTypeEnum">
4798     <xs:restriction base="xs:string">
4799         <xs:enumeration value="emergencyTelephoneNumberOutOfService" />
4800         <xs:enumeration value="informationServiceTelephoneNumberOutOfService" />
4801         <xs:enumeration value="noTrafficOfficerPatrolService" />
4802     </xs:restriction>
4803 </xs:simpleType>
4804 <xs:complexType name="RoadOrCarriagewayOrLaneManagement">
4805     <xs:complexContent>
4806         <xs:extension base="D2LogicalModel:NetworkManagement">
4807             <xs:sequence>
4808                 <xs:element name="roadOrCarriagewayOrLaneManagementType"
4809                     type="D2LogicalModel:RoadOrCarriagewayOrLaneManagementTypeEnum"
4810                     minOccurs="1" maxOccurs="1" />
4811                 <xs:element name="minimumCarOccupancy"
4812                     type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
4813                 <xs:element name="roadOrCarriagewayOrLaneManagementExtension"
4814                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />

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4805         </xs:sequence>
4806     </xs:extension>
4807 </xs:complexContent>
4808 </xs:complexType>
4809 <xs:simpleType name="RoadOrCarriagewayOrLaneManagementTypeEnum">
4810     <xs:restriction base="xs:string">
4811         <xs:enumeration value="carPoolLaneInOperation" />
4812         <xs:enumeration value="carriagewayClosures" />
4813         <xs:enumeration value="clearALaneForEmergencyVehicles" />
4814         <xs:enumeration value="clearALaneForSnowploughsAndGrittingVehicles" />
4815         <xs:enumeration value="closedPermanentlyForTheWinter" />
4816         <xs:enumeration value="contraflow" />
4817         <xs:enumeration value="doNotUseSpecifiedLanesOrCarriageways" />
4818         <xs:enumeration value="hardShoulderRunningInOperation" />
4819         <xs:enumeration value="heightRestrictionInOperation" />
4820         <xs:enumeration value="intermittentShortTermClosures" />
4821         <xs:enumeration value="keepToTheLeft" />
4822         <xs:enumeration value="keepToTheRight" />
4823         <xs:enumeration value="laneClosures" />
4824         <xs:enumeration value="lanesDeviated" />
4825         <xs:enumeration value="narrowLanes" />
4826         <xs:enumeration value="newRoadworksLayout" />
4827         <xs:enumeration value="overnightClosures" />
4828         <xs:enumeration value="roadCleared" />
4829         <xs:enumeration value="roadClosed" />
4830         <xs:enumeration value="rollingRoadBlock" />
4831         <xs:enumeration value="rushHourLaneInOperation" />
4832         <xs:enumeration value="singleAlternateLineTraffic" />
4833         <xs:enumeration value="tidalFlowLaneInOperation" />
4834         <xs:enumeration value="turnAroundInOperation" />
4835         <xs:enumeration value="useOfSpecifiedLanesOrCarriagewaysAllowed" />
4836         <xs:enumeration value="useSpecifiedLanesOrCarriageways" />
4837         <xs:enumeration value="vehicleStorageInOperation" />
4838         <xs:enumeration value="weightRestrictionInOperation" />
4839         <xs:enumeration value="other" />
4840     </xs:restriction>
4841 </xs:simpleType>
4842 <xs:complexType name="RoadsideAssistance">
4843     <xs:complexContent>
4844         <xs:extension base="D2LogicalModel:OperatorAction">
4845             <xs:sequence>
4846                 <xs:element name="roadsideAssistanceType"
4847                     type="D2LogicalModel:RoadsideAssistanceTypeEnum" minOccurs="1"
4848                     maxOccurs="1" />
4849                 <xs:element name="roadsideAssistanceExtension"
4850                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4851             </xs:sequence>
4852         </xs:extension>
4853     </xs:complexContent>
4854 </xs:complexType>
4855 <xs:simpleType name="RoadsideAssistanceTypeEnum">
4856     <xs:restriction base="xs:string">
4857         <xs:enumeration value="airAmbulance" />
4858         <xs:enumeration value="busPassengerAssistance" />
4859         <xs:enumeration value="emergencyServices" />
4860         <xs:enumeration value="firstAid" />
4861         <xs:enumeration value="foodDelivery" />
4862         <xs:enumeration value="helicopterRescue" />
4863         <xs:enumeration value="vehicleRepair" />
4864         <xs:enumeration value="vehicleRecovery" />
4865         <xs:enumeration value="other" />
4866     </xs:restriction>
4867 </xs:simpleType>
4868 <xs:complexType name="RoadsideServiceDisruption">
4869     <xs:complexContent>
4870         <xs:extension base="D2LogicalModel:NonRoadEventInformation">
4871             <xs:sequence>
4872                 <xs:element name="roadsideServiceDisruptionType"
4873                     type="D2LogicalModel:RoadsideServiceDisruptionTypeEnum" minOccurs="1"
4874                     maxOccurs="unbounded" />
4875                 <xs:element name="roadsideServiceDisruptionExtension"
4876                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />

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4871         </xs:sequence>
4872     </xs:extension>
4873 </xs:complexContent>
4874 </xs:complexType>
4875 <xs:simpleType name="RoadsideServiceDisruptionTypeEnum">
4876     <xs:restriction base="xs:string">
4877         <xs:enumeration value="barClosed" />
4878         <xs:enumeration value="dieselShortage" />
4879         <xs:enumeration value="fuelShortage" />
4880         <xs:enumeration value="lpgShortage" />
4881         <xs:enumeration value="methaneShortage" />
4882         <xs:enumeration value="noDieselForHeavyVehicles" />
4883         <xs:enumeration value="noDieselForLightVehicles" />
4884         <xs:enumeration value="noPublicTelephones" />
4885         <xs:enumeration value="noToiletFacilities" />
4886         <xs:enumeration value="noVehicleRepairFacilities" />
4887         <xs:enumeration value="petrolShortage" />
4888         <xs:enumeration value="restAreaBusy" />
4889         <xs:enumeration value="restAreaClosed" />
4890         <xs:enumeration value="restAreaOvercrowdedDriveToAnotherRestArea" />
4891         <xs:enumeration value="serviceAreaBusy" />
4892         <xs:enumeration value="serviceAreaClosed" />
4893         <xs:enumeration value="serviceAreaFuelStationClosed" />
4894         <xs:enumeration value="serviceAreaOvercrowdedDriveToAnotherServiceArea" />
4895         <xs:enumeration value="serviceAreaRestaurantClosed" />
4896         <xs:enumeration value="someCommercialServicesClosed" />
4897         <xs:enumeration value="waterShortage" />
4898     </xs:restriction>
4899 </xs:simpleType>
4900 <xs:complexType name="RoadSurfaceConditionInformation">
4901     <xs:complexContent>
4902         <xs:extension base="D2LogicalModel:WeatherData">
4903             <xs:sequence>
4904                 <xs:element name="weatherRelatedRoadConditionType"
4905                     type="D2LogicalModel:WeatherRelatedRoadConditionTypeEnum" minOccurs="0"
4906                     maxOccurs="unbounded" />
4907                 <xs:element name="roadSurfaceConditionMeasurements"
4908                     type="D2LogicalModel:RoadSurfaceConditionMeasurements" />
4909                 <xs:element name="roadSurfaceConditionInformationExtension"
4910                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4911             </xs:sequence>
4912         </xs:extension>
4913     </xs:complexContent>
4914 </xs:complexType>
4915 <xs:complexType name="RoadSurfaceConditionMeasurements">
4916     <xs:sequence>
4917         <xs:element name="roadSurfaceTemperature"
4918             type="D2LogicalModel:TemperatureValue" minOccurs="0" />
4919         <xs:element name="protectionTemperature"
4920             type="D2LogicalModel:TemperatureValue" minOccurs="0" />
4921         <xs:element name="deIcingApplicationRate"
4922             type="D2LogicalModel:ApplicationRateValue" minOccurs="0" />
4923         <xs:element name="deIcingConcentration"
4924             type="D2LogicalModel:KilogramsConcentrationValue" minOccurs="0" />
4925         <xs:element name="depthOfSnow"
4926             type="D2LogicalModel:FloatingPointMetreDistanceValue" minOccurs="0" />
4927         <xs:element name="waterFilmThickness"
4928             type="D2LogicalModel:FloatingPointMetreDistanceValue" minOccurs="0" />
4929         <xs:element name="roadSurfaceConditionMeasurementsExtension"
4930             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4931     </xs:sequence>
4932 </xs:complexType>
4933 <xs:simpleType name="RoadTypeEnum">
4934     <xs:restriction base="xs:string">
4935         <xs:enumeration value="motorway" />
4936         <xs:enumeration value="trunkRoad" />
4937         <xs:enumeration value="mainRoad" />
4938         <xs:enumeration value="other" />
4939     </xs:restriction>
4940 </xs:simpleType>
4941 <xs:complexType name="Roadworks" abstract="true">
4942     <xs:complexContent>

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4932     <xs:extension base="D2LogicalModel:OperatorAction">
4933         <xs:sequence>
4934             <xs:element name="roadworksDuration"
4935                 type="D2LogicalModel:RoadworksDurationEnum" minOccurs="0" maxOccurs="1" />
4936             <xs:element name="roadworksScale" type="D2LogicalModel:RoadworksScaleEnum"
4937                 minOccurs="0" maxOccurs="1" />
4938             <xs:element name="underTraffic" type="D2LogicalModel:Boolean"
4939                 minOccurs="0" maxOccurs="1" />
4940             <xs:element name="urgentRoadworks" type="D2LogicalModel:Boolean"
4941                 minOccurs="0" maxOccurs="1" />
4942             <xs:element name="mobility" type="D2LogicalModel:Mobility" minOccurs="0" />
4943             <xs:element name="subjects" type="D2LogicalModel:Subjects" minOccurs="0" />
4944             <xs:element name="maintenanceVehicles"
4945                 type="D2LogicalModel:MaintenanceVehicles" minOccurs="0" />
4946             <xs:element name="roadworksExtension" type="D2LogicalModel:_ExtensionType"
4947                 minOccurs="0" />
4948         </xs:sequence>
4949     </xs:extension>
4950 </xs:complexContent>
4951 </xs:complexType>
4952 <xs:simpleType name="RoadworksDurationEnum">
4953     <xs:restriction base="xs:string">
4954         <xs:enumeration value="longTerm" />
4955         <xs:enumeration value="mediumTerm" />
4956         <xs:enumeration value="shortTerm" />
4957     </xs:restriction>
4958 </xs:simpleType>
4959 <xs:simpleType name="RoadworksScaleEnum">
4960     <xs:restriction base="xs:string">
4961         <xs:enumeration value="major" />
4962         <xs:enumeration value="medium" />
4963         <xs:enumeration value="minor" />
4964     </xs:restriction>
4965 </xs:simpleType>
4966 <xs:simpleType name="Seconds">
4967     <xs:restriction base="D2LogicalModel:Float" />
4968 </xs:simpleType>
4969 <xs:complexType name="ServiceFacility">
4970     <xs:complexContent>
4971         <xs:extension base="D2LogicalModel:ParkingEquipmentOrServiceFacility">
4972             <xs:sequence>
4973                 <xs:element name="serviceFacilityType"
4974                     type="D2LogicalModel:ServiceFacilityTypeEnum" minOccurs="1" maxOccurs="1" />
4975                 <xs:element name="numberOfSubitems"
4976                     type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
4977                 <xs:element name="distanceFromParkingSite"
4978                     type="D2LogicalModel:MetresAsNonNegativeInteger" minOccurs="0"
4979                     maxOccurs="1" />
4980                 <xs:element name="serviceFacilityExtension"
4981                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
4982             </xs:sequence>
4983         </xs:extension>
4984     </xs:complexContent>
4985 </xs:complexType>
4986 <xs:simpleType name="ServiceFacilityTypeEnum">
4987     <xs:restriction base="xs:string">
4988         <xs:enumeration value="hotel" />
4989         <xs:enumeration value="motel" />
4990         <xs:enumeration value="overnightAccommodation" />
4991         <xs:enumeration value="shop" />
4992         <xs:enumeration value="kiosk" />
4993         <xs:enumeration value="foodShopping" />
4994         <xs:enumeration value="cafe" />
4995         <xs:enumeration value="restaurant" />
4996         <xs:enumeration value="restaurantSelfService" />
4997         <xs:enumeration value="motorwayRestaurant" />
4998         <xs:enumeration value="motorwayRestaurantSmall" />
4999         <xs:enumeration value="sparePartsShopping" />
5000         <xs:enumeration value="petrolStation" />
5001         <xs:enumeration value="vehicleMaintenance" />
5002         <xs:enumeration value="tyreRepair" />
5003         <xs:enumeration value="truckRepair" />

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4993     <xs:enumeration value="truckWash" />
4994     <xs:enumeration value="carWash" />
4995     <xs:enumeration value="pharmacy" />
4996     <xs:enumeration value="medicalFacility" />
4997     <xs:enumeration value="police" />
4998     <xs:enumeration value="touristInformation" />
4999     <xs:enumeration value="bikeSharing" />
5000     <xs:enumeration value="docstop" />
5001     <xs:enumeration value="laundry" />
5002     <xs:enumeration value="leisureActivities" />
5003     <xs:enumeration value="unknown" />
5004     <xs:enumeration value="other" />
5005   </xs:restriction>
5006 </xs:simpleType>
5007 <xs:simpleType name="SeverityEnum">
5008   <xs:restriction base="xs:string">
5009     <xs:enumeration value="highest" />
5010     <xs:enumeration value="high" />
5011     <xs:enumeration value="medium" />
5012     <xs:enumeration value="low" />
5013     <xs:enumeration value="lowest" />
5014     <xs:enumeration value="none" />
5015     <xs:enumeration value="unknown" />
5016   </xs:restriction>
5017 </xs:simpleType>
5018 <xs:complexType name="SignSetting">
5019   <xs:complexContent>
5020     <xs:extension base="D2LogicalModel:OperatorAction">
5021       <xs:sequence>
5022         <xs:element name="vmsSetting" type="D2LogicalModel:VmsSetting" />
5023         <xs:element name="signSettingExtension"
5024           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5025       </xs:sequence>
5026     </xs:extension>
5027   </xs:complexContent>
5028 </xs:complexType>
5029 <xs:complexType name="SiteMeasurements">
5030   <xs:sequence>
5031     <xs:element name="measurementSiteReference"
5032       type="D2LogicalModel:_MeasurementSiteRecordVersionedReference" minOccurs="1"
5033       maxOccurs="1" />
5034     <xs:element name="measurementTimeDefault" type="D2LogicalModel:DateTime"
5035       minOccurs="1" maxOccurs="1" />
5036     <xs:element name="measuredValue"
5037       type="D2LogicalModel:_SiteMeasurementsIndexMeasuredValue" minOccurs="0"
5038       maxOccurs="unbounded" />
5039     <xs:element name="siteMeasurementsExtension"
5040       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5041   </xs:sequence>
5042 </xs:complexType>
5043 <xs:complexType name="Situation">
5044   <xs:sequence>
5045     <xs:element name="overallSeverity" type="D2LogicalModel:SeverityEnum"
5046       minOccurs="0" maxOccurs="1" />
5047     <xs:element name="relatedSituation"
5048       type="D2LogicalModel:_SituationVersionedReference" minOccurs="0"
5049       maxOccurs="unbounded" />
5050     <xs:element name="situationVersionTime" type="D2LogicalModel:DateTime"
5051       minOccurs="0" maxOccurs="1" />
5052     <xs:element name="headerInformation" type="D2LogicalModel:HeaderInformation" />
5053     <xs:element name="situationRecord" type="D2LogicalModel:SituationRecord"
5054       maxOccurs="unbounded" />
5055     <xs:element name="situationExtension" type="D2LogicalModel:_ExtensionType"
5056       minOccurs="0" />
5057   </xs:sequence>
5058   <xs:attribute name="id" type="xs:string" use="required" />
5059   <xs:attribute name="version" type="xs:string" use="required" />
5060 </xs:complexType>
5061 <xs:complexType name="SituationPublication">
5062   <xs:complexContent>
5063     <xs:extension base="D2LogicalModel:PayloadPublication">
5064       <xs:sequence>

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5052         <xs:element name="situation" type="D2LogicalModel:Situation" minOccurs="0"
5053             maxOccurs="unbounded" />
5054         <xs:element name="situationPublicationExtension"
5055             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5056     </xs:sequence>
5057 </xs:extension>
5058 </xs:complexContent>
5059 </xs:complexType>
5060 <xs:complexType name="SituationRecord" abstract="true">
5061     <xs:sequence>
5062         <xs:element name="situationRecordCreationReference"
5063             type="D2LogicalModel:String" minOccurs="0" maxOccurs="1" />
5064         <xs:element name="situationRecordCreationTime" type="D2LogicalModel:DateTime"
5065             minOccurs="1" maxOccurs="1" />
5066         <xs:element name="situationRecordObservationTime"
5067             type="D2LogicalModel:DateTime" minOccurs="0" maxOccurs="1" />
5068         <xs:element name="situationRecordVersionTime" type="D2LogicalModel:DateTime"
5069             minOccurs="1" maxOccurs="1" />
5070         <xs:element name="situationRecordFirstSupplierVersionTime"
5071             type="D2LogicalModel:DateTime" minOccurs="0" maxOccurs="1" />
5072         <xs:element name="confidentialityOverride"
5073             type="D2LogicalModel:ConfidentialityValueEnum" minOccurs="0" maxOccurs="1" />
5074         <xs:element name="probabilityOfOccurrence"
5075             type="D2LogicalModel:ProbabilityOfOccurrenceEnum" minOccurs="1" maxOccurs="1" />
5076         <xs:element name="severity" type="D2LogicalModel:SeverityEnum" minOccurs="0"
5077             maxOccurs="1" />
5078         <xs:element name="source" type="D2LogicalModel:Source" minOccurs="0" />
5079         <xs:element name="validity" type="D2LogicalModel:Validity" />
5080         <xs:element name="impact" type="D2LogicalModel:Impact" minOccurs="0" />
5081         <xs:element name="cause" type="D2LogicalModel:Cause" minOccurs="0" />
5082         <xs:element name="generalPublicComment" type="D2LogicalModel:Comment"
5083             minOccurs="0" maxOccurs="unbounded" />
5084         <xs:element name="nonGeneralPublicComment" type="D2LogicalModel:Comment"
5085             minOccurs="0" maxOccurs="unbounded" />
5086         <xs:element name="urlLink" type="D2LogicalModel:UrlLink" minOccurs="0"
5087             maxOccurs="unbounded" />
5088         <xs:element name="groupOfLocations" type="D2LogicalModel:GroupOfLocations" />
5089         <xs:element name="management" type="D2LogicalModel:Management" minOccurs="0" />
5090         <xs:element name="situationRecordExtension"
5091             type="D2LogicalModel:_SituationRecordExtensionType" minOccurs="0" />
5092     </xs:sequence>
5093     <xs:attribute name="id" type="xs:string" use="required" />
5094     <xs:attribute name="version" type="xs:string" use="required" />
5095 </xs:complexType>
5096 <xs:complexType name="SituationRecordExtendedApproved">
5097     <xs:sequence>
5098         <xs:element name="safetyRelatedMessage" type="D2LogicalModel:Boolean"
5099             minOccurs="0" maxOccurs="1" />
5100     </xs:sequence>
5101 </xs:complexType>
5102 <xs:complexType name="Source">
5103     <xs:sequence>
5104         <xs:element name="sourceCountry" type="D2LogicalModel:CountryEnum"
5105             minOccurs="0" maxOccurs="1" />
5106         <xs:element name="sourceIdentification" type="D2LogicalModel:String"
5107             minOccurs="0" maxOccurs="1" />
5108         <xs:element name="sourceName" type="D2LogicalModel:MultilingualString"
5109             minOccurs="0" maxOccurs="1" />
5110         <xs:element name="sourceType" type="D2LogicalModel:SourceTypeEnum"
5111             minOccurs="0" maxOccurs="1" />
5112         <xs:element name="reliable" type="D2LogicalModel:Boolean" minOccurs="0"
5113             maxOccurs="1" />
5114         <xs:element name="sourceExtension" type="D2LogicalModel:_ExtensionType"
5115             minOccurs="0" />
5116     </xs:sequence>
5117 </xs:complexType>
5118 <xs:simpleType name="SourceTypeEnum">
5119     <xs:restriction base="xs:string">
5120         <xs:enumeration value="automobileClubPatrol" />
5121         <xs:enumeration value="cameraObservation" />
5122         <xs:enumeration value="freightVehicleOperator" />
5123         <xs:enumeration value="inductionLoopMonitoringStation" />

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5103     <xs:enumeration value="infraredMonitoringStation" />
5104     <xs:enumeration value="microwaveMonitoringStation" />
5105     <xs:enumeration value="mobileTelephoneCaller" />
5106     <xs:enumeration value="nonPoliceEmergencyServicePatrol" />
5107     <xs:enumeration value="otherInformation" />
5108     <xs:enumeration value="otherOfficialVehicle" />
5109     <xs:enumeration value="policePatrol" />
5110     <xs:enumeration value="privateBreakdownService" />
5111     <xs:enumeration value="publicAndPrivateUtilities" />
5112     <xs:enumeration value="registeredMotoristObserver" />
5113     <xs:enumeration value="roadAuthorities" />
5114     <xs:enumeration value="roadOperatorPatrol" />
5115     <xs:enumeration value="roadsideTelephoneCaller" />
5116     <xs:enumeration value="spotterAircraft" />
5117     <xs:enumeration value="trafficMonitoringStation" />
5118     <xs:enumeration value="transitOperator" />
5119     <xs:enumeration value="vehicleProbeMeasurement" />
5120     <xs:enumeration value="videoProcessingMonitoringStation" />
5121 </xs:restriction>
5122 </xs:simpleType>
5123 <xs:complexType name="SpecialDay">
5124     <xs:sequence>
5125         <xs:element name="intersectWithApplicableDays" type="D2LogicalModel:Boolean"
5126             minOccurs="1" maxOccurs="1" />
5127         <xs:element name="specialDayType" type="D2LogicalModel:SpecialDayTypeEnum"
5128             minOccurs="1" maxOccurs="1" />
5129         <xs:element name="specialDayName" type="D2LogicalModel:MultilingualString"
5130             minOccurs="0" maxOccurs="1" />
5131         <xs:element name="publicHoliday" type="D2LogicalModel:PublicHoliday"
5132             minOccurs="0" maxOccurs="unbounded" />
5133         <xs:element name="specialDayExtension" type="D2LogicalModel:_ExtensionType"
5134             minOccurs="0" />
5135     </xs:sequence>
5136 </xs:complexType>
5137 <xs:simpleType name="SpecialDayTypeEnum">
5138     <xs:restriction base="xs:string">
5139         <xs:enumeration value="bicycleRaceDay" />
5140         <xs:enumeration value="bullFightDay" />
5141         <xs:enumeration value="carnivalDay" />
5142         <xs:enumeration value="exhibitionDay" />
5143         <xs:enumeration value="festivalDay" />
5144         <xs:enumeration value="gamesDay" />
5145         <xs:enumeration value="horseRaceMeetingDay" />
5146         <xs:enumeration value="huntMeetingDay" />
5147         <xs:enumeration value="marathonRaceDay" />
5148         <xs:enumeration value="marketDay" />
5149         <xs:enumeration value="motorSportRaceMeetingDay" />
5150         <xs:enumeration value="nonWorkingDay" />
5151         <xs:enumeration value="raceMeetingDay" />
5152         <xs:enumeration value="regattaDay" />
5153         <xs:enumeration value="showDay" />
5154         <xs:enumeration value="sportsMeetingDay" />
5155         <xs:enumeration value="workingDay" />
5156         <xs:enumeration value="schoolDay" />
5157         <xs:enumeration value="electionDay" />
5158         <xs:enumeration value="publicHoliday" />
5159         <xs:enumeration value="holidays" />
5160         <xs:enumeration value="undefinedDayType" />
5161         <xs:enumeration value="unknown" />
5162         <xs:enumeration value="other" />
5163     </xs:restriction>
5164 </xs:simpleType>
5165 <xs:complexType name="SpecialLocationParkingSite">
5166     <xs:complexContent>
5167         <xs:extension base="D2LogicalModel:ParkingSite">
5168             <xs:sequence>
5169                 <xs:element name="parkingSpecialLocation"
5170                     type="D2LogicalModel:ParkingSpecialLocationEnum" minOccurs="1"
5171                     maxOccurs="1" />
5172                 <xs:element name="parkingOtherSpecialLocation"
5173                     type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
5174                 <xs:element name="specialLocationParkingSiteExtension"

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        type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5167     </xs:sequence>
5168   </xs:extension>
5169 </xs:complexContent>
5170 </xs:complexType>
5171 <xs:complexType name="SpeedManagement">
5172   <xs:complexContent>
5173     <xs:extension base="D2LogicalModel:NetworkManagement">
5174       <xs:sequence>
5175         <xs:element name="speedManagementType"
5176           type="D2LogicalModel:SpeedManagementTypeEnum" minOccurs="0" maxOccurs="1" />
5177         <xs:element name="temporarySpeedLimit"
5178           type="D2LogicalModel:KilometresPerHour" minOccurs="0" maxOccurs="1" />
5179         <xs:element name="speedManagementExtension"
5180           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5181       </xs:sequence>
5182     </xs:extension>
5183   </xs:complexContent>
5184 </xs:complexType>
5185 <xs:simpleType name="SpeedManagementTypeEnum">
5186   <xs:restriction base="xs:string">
5187     <xs:enumeration value="activeSpeedControlInOperation" />
5188     <xs:enumeration value="doNotSlowdownUnnecessarily" />
5189     <xs:enumeration value="observeSpeedLimit" />
5190     <xs:enumeration value="policeSpeedChecksInOperation" />
5191     <xs:enumeration value="reduceYourSpeed" />
5192     <xs:enumeration value="speedRestrictionInOperation" />
5193     <xs:enumeration value="other" />
5194   </xs:restriction>
5195 </xs:simpleType>
5196 <xs:complexType name="SpeedPercentile">
5197   <xs:sequence>
5198     <xs:element name="vehiclePercentage" type="D2LogicalModel:PercentageValue" />
5199     <xs:element name="speedPercentile" type="D2LogicalModel:SpeedValue" />
5200     <xs:element name="speedPercentileExtension"
5201       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5202   </xs:sequence>
5203 </xs:complexType>
5204 <xs:complexType name="SpeedValue">
5205   <xs:complexContent>
5206     <xs:extension base="D2LogicalModel:DataValue">
5207       <xs:sequence>
5208         <xs:element name="speed" type="D2LogicalModel:KilometresPerHour"
5209           minOccurs="1" maxOccurs="1" />
5210         <xs:element name="speedValueExtension"
5211           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5212       </xs:sequence>
5213     </xs:extension>
5214   </xs:complexContent>
5215 </xs:complexType>
5216 <xs:simpleType name="SquareMetres">
5217   <xs:restriction base="D2LogicalModel:NonNegativeInteger" />
5218 </xs:simpleType>
5219 <xs:simpleType name="String">
5220   <xs:restriction base="xs:string">
5221     <xs:maxLength value="1024" />
5222   </xs:restriction>
5223 </xs:simpleType>
5224 <xs:complexType name="Subjects">
5225   <xs:sequence>
5226     <xs:element name="subjectTypeOfWorks"
5227       type="D2LogicalModel:SubjectTypeOfWorksEnum" minOccurs="1" maxOccurs="1" />
5228     <xs:element name="numberOfSubjects" type="D2LogicalModel:NonNegativeInteger"
5229       minOccurs="0" maxOccurs="1" />
5230     <xs:element name="subjectsExtension" type="D2LogicalModel:_ExtensionType"
5231       minOccurs="0" />
5232   </xs:sequence>
5233 </xs:complexType>
5234 <xs:simpleType name="SubjectTypeOfWorksEnum">
5235   <xs:restriction base="xs:string">
5236     <xs:enumeration value="bridge" />
5237     <xs:enumeration value="buriedCables" />

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5229     <xs:enumeration value="buriedServices" />
5230     <xs:enumeration value="crashBarrier" />
5231     <xs:enumeration value="gallery" />
5232     <xs:enumeration value="gantry" />
5233     <xs:enumeration value="gasMainWork" />
5234     <xs:enumeration value="interchange" />
5235     <xs:enumeration value="junction" />
5236     <xs:enumeration value="levelCrossing" />
5237     <xs:enumeration value="lightingSystem" />
5238     <xs:enumeration value="measurementEquipment" />
5239     <xs:enumeration value="noiseProtection" />
5240     <xs:enumeration value="road" />
5241     <xs:enumeration value="roadsideDrains" />
5242     <xs:enumeration value="roadsideEmbankment" />
5243     <xs:enumeration value="roadsideEquipment" />
5244     <xs:enumeration value="roadSigns" />
5245     <xs:enumeration value="roundabout" />
5246     <xs:enumeration value="tollGate" />
5247     <xs:enumeration value="tunnel" />
5248     <xs:enumeration value="waterMain" />
5249     <xs:enumeration value="other" />
5250 </xs:restriction>
5251 </xs:simpleType>
5252 <xs:complexType name="Subscription">
5253     <xs:sequence>
5254         <xs:element name="deleteSubscription" type="D2LogicalModel:Boolean"
5255             minOccurs="0" maxOccurs="1" />
5256         <xs:element name="deliveryInterval" type="D2LogicalModel:Seconds"
5257             minOccurs="0" maxOccurs="1" />
5258         <xs:element name="operatingMode" type="D2LogicalModel:OperatingModeEnum"
5259             minOccurs="1" maxOccurs="1" />
5260         <xs:element name="subscriptionStartTime" type="D2LogicalModel:DateTime"
5261             minOccurs="1" maxOccurs="1" />
5262         <xs:element name="subscriptionState"
5263             type="D2LogicalModel:SubscriptionStateEnum" minOccurs="1" maxOccurs="1" />
5264         <xs:element name="subscriptionStopTime" type="D2LogicalModel:DateTime"
5265             minOccurs="0" maxOccurs="1" />
5266         <xs:element name="updateMethod" type="D2LogicalModel:UpdateMethodEnum"
5267             minOccurs="1" maxOccurs="1" />
5268         <xs:element name="target" type="D2LogicalModel:Target" maxOccurs="unbounded" />
5269         <xs:element name="filterReference" type="D2LogicalModel:FilterReference"
5270             minOccurs="0" />
5271         <xs:element name="catalogueReference" type="D2LogicalModel:CatalogueReference"
5272             minOccurs="0" />
5273         <xs:element name="subscriptionExtension" type="D2LogicalModel:_ExtensionType"
5274             minOccurs="0" />
5275     </xs:sequence>
5276 </xs:complexType>
5277 <xs:simpleType name="SubscriptionStateEnum">
5278     <xs:restriction base="xs:string">
5279         <xs:enumeration value="active" />
5280         <xs:enumeration value="suspended" />
5281     </xs:restriction>
5282 </xs:simpleType>
5283 <xs:complexType name="SupplementaryPositionalDescription">
5284     <xs:sequence>
5285         <xs:element name="locationDescriptor"
5286             type="D2LogicalModel:LocationDescriptorEnum" minOccurs="0"
5287             maxOccurs="unbounded" />
5288         <xs:element name="sequentialRampNumber"
5289             type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
5290         <xs:element name="affectedCarriagewayAndLanes"
5291             type="D2LogicalModel:AffectedCarriagewayAndLanes" minOccurs="0"
5292             maxOccurs="unbounded" />
5293         <xs:element name="supplementaryPositionalDescriptionExtension"
5294             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5295     </xs:sequence>
5296     <xs:attribute name="locationPrecision"
5297         type="D2LogicalModel:MetresAsNonNegativeInteger" use="optional" />
5298 </xs:complexType>
5299 <xs:complexType name="Target">
5300     <xs:sequence>

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5284     <xs:element name="address" type="D2LogicalModel:String" minOccurs="1"
5285     maxOccurs="1" />
5286     <xs:element name="protocol" type="D2LogicalModel:String" minOccurs="1"
5287     maxOccurs="1" />
5288     <xs:element name="targetExtension" type="D2LogicalModel:_ExtensionType"
5289     minOccurs="0" />
5290   </xs:sequence>
5291 </xs:complexType>
5292 <xs:complexType name="TariffsAndPayment">
5293   <xs:sequence>
5294     <xs:element name="lastUpdated" type="D2LogicalModel:DateTime" minOccurs="0"
5295     maxOccurs="1" />
5296     <xs:element name="acceptedMeansOfPayment"
5297     type="D2LogicalModel:MeansOfPaymentEnum" minOccurs="0" maxOccurs="unbounded" />
5298     <xs:element name="paymentMode" type="D2LogicalModel:ParkingPaymentModeEnum"
5299     minOccurs="0" maxOccurs="unbounded" />
5300     <xs:element name="paymentAdditionalDescription"
5301     type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
5302     <xs:element name="freeOfCharge" type="D2LogicalModel:Boolean" minOccurs="0"
5303     maxOccurs="1" />
5304     <xs:element name="reservationFee" type="D2LogicalModel:AmountOfMoney"
5305     minOccurs="0" maxOccurs="1" />
5306     <xs:element name="urlLinkAddress" type="D2LogicalModel:Url" minOccurs="0"
5307     maxOccurs="1" />
5308     <xs:element name="chargeBand" type="D2LogicalModel:ChargeBand" minOccurs="0"
5309     maxOccurs="unbounded" />
5310     <xs:element name="chargeBandByReference"
5311     type="D2LogicalModel:ChargeBandByReference" minOccurs="0"
5312     maxOccurs="unbounded" />
5313     <xs:element name="acceptedPaymentCards"
5314     type="D2LogicalModel:AcceptedPaymentCards" minOccurs="0" />
5315     <xs:element name="tariffsAndPaymentExtension"
5316     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5317   </xs:sequence>
5318 </xs:complexType>
5319 <xs:complexType name="Temperature">
5320   <xs:sequence>
5321     <xs:element name="airTemperature" type="D2LogicalModel:TemperatureValue"
5322     minOccurs="0" />
5323     <xs:element name="dewPointTemperature" type="D2LogicalModel:TemperatureValue"
5324     minOccurs="0" />
5325     <xs:element name="maximumTemperature" type="D2LogicalModel:TemperatureValue"
5326     minOccurs="0" />
5327     <xs:element name="minimumTemperature" type="D2LogicalModel:TemperatureValue"
5328     minOccurs="0" />
5329     <xs:element name="temperatureExtension" type="D2LogicalModel:_ExtensionType"
5330     minOccurs="0" />
5331   </xs:sequence>
5332 </xs:complexType>
5333 <xs:simpleType name="TemperatureCelsius">
5334   <xs:restriction base="D2LogicalModel:Float" />
5335 </xs:simpleType>
5336 <xs:complexType name="TemperatureInformation">
5337   <xs:complexContent>
5338     <xs:extension base="D2LogicalModel:WeatherData">
5339       <xs:sequence>
5340         <xs:element name="temperature" type="D2LogicalModel:Temperature" />
5341         <xs:element name="temperatureInformationExtension"
5342         type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5343       </xs:sequence>
5344     </xs:extension>
5345   </xs:complexContent>
5346 </xs:complexType>
5347 <xs:complexType name="TemperatureValue">
5348   <xs:complexContent>
5349     <xs:extension base="D2LogicalModel:DataValue">
5350       <xs:sequence>
5351         <xs:element name="temperature" type="D2LogicalModel:TemperatureCelsius"
5352         minOccurs="1" maxOccurs="1" />
5353         <xs:element name="temperatureValueExtension"
5354         type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5355       </xs:sequence>

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5333     </xs:extension>
5334   </xs:complexContent>
5335 </xs:complexType>
5336 <xs:complexType name="TextDisplayAreaSettings">
5337   <xs:sequence>
5338     <xs:element name="textLanternsOn" type="D2LogicalModel:Boolean" minOccurs="0"
5339       maxOccurs="1" />
5340     <xs:element name="textLuminanceOverride" type="D2LogicalModel:Boolean"
5341       minOccurs="0" maxOccurs="1" />
5342     <xs:element name="textLuminanceLevel" type="D2LogicalModel:NonNegativeInteger"
5343       minOccurs="0" maxOccurs="1" />
5344     <xs:element name="textLuminanceLevelName"
5345       type="D2LogicalModel:VmsLuminanceLevelEnum" minOccurs="0" maxOccurs="1" />
5346     <xs:element name="textDisplayAreaSettingsExtension"
5347       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5348   </xs:sequence>
5349 </xs:complexType>
5350 <xs:simpleType name="Time">
5351   <xs:restriction base="xs:time" />
5352 </xs:simpleType>
5353 <xs:complexType name="TimePeriodByHour">
5354   <xs:complexContent>
5355     <xs:extension base="D2LogicalModel:TimePeriodOfDay">
5356       <xs:sequence>
5357         <xs:element name="startTimeOfPeriod" type="D2LogicalModel:Time"
5358           minOccurs="1" maxOccurs="1" />
5359         <xs:element name="endTimeOfPeriod" type="D2LogicalModel:Time"
5360           minOccurs="1" maxOccurs="1" />
5361         <xs:element name="timePeriodByHourExtension"
5362           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5363       </xs:sequence>
5364     </xs:extension>
5365   </xs:complexContent>
5366 </xs:complexType>
5367 <xs:complexType name="TimePeriodOfDay" abstract="true">
5368   <xs:sequence>
5369     <xs:element name="timePeriodOfDayExtension"
5370       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5371   </xs:sequence>
5372 </xs:complexType>
5373 <xs:simpleType name="TimePrecisionEnum">
5374   <xs:restriction base="xs:string">
5375     <xs:enumeration value="tenthsOfSecond" />
5376     <xs:enumeration value="second" />
5377     <xs:enumeration value="minute" />
5378     <xs:enumeration value="quarterHour" />
5379     <xs:enumeration value="halfHour" />
5380     <xs:enumeration value="hour" />
5381   </xs:restriction>
5382 </xs:simpleType>
5383 <xs:simpleType name="Tonnes">
5384   <xs:restriction base="D2LogicalModel:Float" />
5385 </xs:simpleType>
5386 <xs:complexType name="TpegAreaDescriptor">
5387   <xs:complexContent>
5388     <xs:extension base="D2LogicalModel:TpegDescriptor">
5389       <xs:sequence>
5390         <xs:element name="tpegAreaDescriptorType"
5391           type="D2LogicalModel:TpegLoc03AreaDescriptorSubtypeEnum" minOccurs="1"
5392           maxOccurs="1" />
5393         <xs:element name="tpegAreaDescriptorExtension"
5394           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5395       </xs:sequence>
5396     </xs:extension>
5397   </xs:complexContent>
5398 </xs:complexType>
5399 <xs:complexType name="TpegAreaLocation" abstract="true">
5400   <xs:sequence>
5401     <xs:element name="tpegAreaLocationType"
5402       type="D2LogicalModel:TpegLoc01AreaLocationSubtypeEnum" minOccurs="1"
5403       maxOccurs="1" />
5404     <xs:element name="tpegHeight" type="D2LogicalModel:TpegHeight" minOccurs="0" />

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5391     <xs:element name="TpegAreaLocationExtension"
5392         type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5393     </xs:sequence>
5394 </xs:complexType>
5395 <xs:complexType name="TpegDescriptor" abstract="true">
5396     <xs:sequence>
5397         <xs:element name="descriptor" type="D2LogicalModel:MultilingualString"
5398             minOccurs="1" maxOccurs="1" />
5399         <xs:element name="TpegDescriptorExtension"
5400             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5401     </xs:sequence>
5402 </xs:complexType>
5403 <xs:complexType name="TpegFramedPoint">
5404     <xs:complexContent>
5405         <xs:extension base="D2LogicalModel:TpegPointLocation">
5406             <xs:sequence>
5407                 <xs:element name="TpegFramedPointLocationType"
5408                     type="D2LogicalModel:TpegLoc01FramedPointLocationSubtypeEnum"
5409                     minOccurs="1" maxOccurs="1" />
5410                 <xs:element name="framedPoint" type="D2LogicalModel:TpegNonJunctionPoint" />
5411                 <xs:element name="to" type="D2LogicalModel:TpegPoint" />
5412                 <xs:element name="from" type="D2LogicalModel:TpegPoint" />
5413                 <xs:element name="TpegFramedPointExtension"
5414                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5415             </xs:sequence>
5416         </xs:extension>
5417     </xs:complexContent>
5418 </xs:complexType>
5419 <xs:complexType name="TpegGeometricArea">
5420     <xs:complexContent>
5421         <xs:extension base="D2LogicalModel:TpegAreaLocation">
5422             <xs:sequence>
5423                 <xs:element name="radius" type="D2LogicalModel:MetresAsNonNegativeInteger"
5424                     minOccurs="1" maxOccurs="1" />
5425                 <xs:element name="centrePoint" type="D2LogicalModel:PointCoordinates" />
5426                 <xs:element name="name" type="D2LogicalModel:TpegAreaDescriptor"
5427                     minOccurs="0" />
5428                 <xs:element name="TpegGeometricAreaExtension"
5429                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5430             </xs:sequence>
5431         </xs:extension>
5432     </xs:complexContent>
5433 </xs:complexType>
5434 <xs:complexType name="TpegHeight">
5435     <xs:sequence>
5436         <xs:element name="height" type="D2LogicalModel:MetresAsFloat" minOccurs="0"
5437             maxOccurs="1" />
5438         <xs:element name="heightType" type="D2LogicalModel:TpegLoc04HeightTypeEnum"
5439             minOccurs="1" maxOccurs="1" />
5440         <xs:element name="TpegHeightExtension" type="D2LogicalModel:_ExtensionType"
5441             minOccurs="0" />
5442     </xs:sequence>
5443 </xs:complexType>
5444 <xs:complexType name="TpegIlcPointDescriptor">
5445     <xs:complexContent>
5446         <xs:extension base="D2LogicalModel:TpegPointDescriptor">
5447             <xs:sequence>
5448                 <xs:element name="TpegIlcPointDescriptorType"
5449                     type="D2LogicalModel:TpegLoc03IlcPointDescriptorSubtypeEnum" minOccurs="1"
5450                     maxOccurs="1" />
5451                 <xs:element name="TpegIlcPointDescriptorExtension"
5452                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5453             </xs:sequence>
5454         </xs:extension>
5455     </xs:complexContent>
5456 </xs:complexType>
5457 <xs:complexType name="TpegJunction">
5458     <xs:complexContent>
5459         <xs:extension base="D2LogicalModel:TpegPoint">
5460             <xs:sequence>
5461                 <xs:element name="pointCoordinates" type="D2LogicalModel:PointCoordinates"
5462                     />

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5447     <xs:element name="name" type="D2LogicalModel:TpegJunctionPointDescriptor"
5448     minOccurs="0" />
5449     <xs:element name="ilc" type="D2LogicalModel:TpegIlcPointDescriptor"
5450     maxOccurs="3" />
5451     <xs:element name="otherName"
5452     type="D2LogicalModel:TpegOtherPointDescriptor" minOccurs="0"
5453     maxOccurs="unbounded" />
5454     <xs:element name="tpegJunctionExtension"
5455     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5456   </xs:sequence>
5457 </xs:extension>
5458 </xs:complexContent>
5459 </xs:complexType>
5460 <xs:complexType name="TpegJunctionPointDescriptor">
5461   <xs:complexContent>
5462     <xs:extension base="D2LogicalModel:TpegPointDescriptor">
5463       <xs:sequence>
5464         <xs:element name="tpegJunctionPointDescriptorType"
5465         type="D2LogicalModel:TpegLoc03JunctionPointDescriptorSubtypeEnum"
5466         minOccurs="1" maxOccurs="1" />
5467         <xs:element name="tpegJunctionPointDescriptorExtension"
5468         type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5469       </xs:sequence>
5470     </xs:extension>
5471   </xs:complexContent>
5472 </xs:complexType>
5473 <xs:complexType name="TpegLinearLocation">
5474   <xs:sequence>
5475     <xs:element name="tpegDirection" type="D2LogicalModel:DirectionEnum"
5476     minOccurs="1" maxOccurs="1" />
5477     <xs:element name="tpegLinearLocationType"
5478     type="D2LogicalModel:TpegLoc01LinearLocationSubtypeEnum" minOccurs="1"
5479     maxOccurs="1" />
5480     <xs:element name="to" type="D2LogicalModel:TpegPoint" />
5481     <xs:element name="from" type="D2LogicalModel:TpegPoint" />
5482     <xs:element name="tpegLinearLocationExtension"
5483     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5484   </xs:sequence>
5485 </xs:complexType>
5486 <xs:simpleType name="TpegLoc01AreaLocationSubtypeEnum">
5487   <xs:restriction base="xs:string">
5488     <xs:enumeration value="largeArea" />
5489     <xs:enumeration value="other" />
5490   </xs:restriction>
5491 </xs:simpleType>
5492 <xs:simpleType name="TpegLoc01FramedPointLocationSubtypeEnum">
5493   <xs:restriction base="xs:string">
5494     <xs:enumeration value="framedPoint" />
5495   </xs:restriction>
5496 </xs:simpleType>
5497 <xs:simpleType name="TpegLoc01LinearLocationSubtypeEnum">
5498   <xs:restriction base="xs:string">
5499     <xs:enumeration value="segment" />
5500   </xs:restriction>
5501 </xs:simpleType>
5502 <xs:simpleType name="TpegLoc01SimplePointLocationSubtypeEnum">
5503   <xs:restriction base="xs:string">
5504     <xs:enumeration value="intersection" />
5505     <xs:enumeration value="nonLinkedPoint" />
5506   </xs:restriction>
5507 </xs:simpleType>
5508 <xs:simpleType name="TpegLoc03AreaDescriptorSubtypeEnum">
5509   <xs:restriction base="xs:string">
5510     <xs:enumeration value="administrativeAreaName" />
5511     <xs:enumeration value="administrativeReferenceName" />
5512     <xs:enumeration value="areaName" />
5513     <xs:enumeration value="countyName" />
5514     <xs:enumeration value="lakeName" />
5515     <xs:enumeration value="nationName" />
5516     <xs:enumeration value="policeForceControlAreaName" />
5517     <xs:enumeration value="regionName" />
5518     <xs:enumeration value="seaName" />
```

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5507         <xs:enumeration value="townName" />
5508         <xs:enumeration value="other" />
5509     </xs:restriction>
5510 </xs:simpleType>
5511 <xs:simpleType name="TpegLoc03IlcPointDescriptorSubtypeEnum">
5512     <xs:restriction base="xs:string">
5513         <xs:enumeration value="tpegIlcName1" />
5514         <xs:enumeration value="tpegIlcName2" />
5515         <xs:enumeration value="tpegIlcName3" />
5516     </xs:restriction>
5517 </xs:simpleType>
5518 <xs:simpleType name="TpegLoc03JunctionPointDescriptorSubtypeEnum">
5519     <xs:restriction base="xs:string">
5520         <xs:enumeration value="junctionName" />
5521     </xs:restriction>
5522 </xs:simpleType>
5523 <xs:simpleType name="TpegLoc03OtherPointDescriptorSubtypeEnum">
5524     <xs:restriction base="xs:string">
5525         <xs:enumeration value="administrativeAreaName" />
5526         <xs:enumeration value="administrativeReferenceName" />
5527         <xs:enumeration value="airportName" />
5528         <xs:enumeration value="areaName" />
5529         <xs:enumeration value="buildingName" />
5530         <xs:enumeration value="busStopIdentifier" />
5531         <xs:enumeration value="busStopName" />
5532         <xs:enumeration value="canalName" />
5533         <xs:enumeration value="countyName" />
5534         <xs:enumeration value="ferryPortName" />
5535         <xs:enumeration value="intersectionName" />
5536         <xs:enumeration value="lakeName" />
5537         <xs:enumeration value="linkName" />
5538         <xs:enumeration value="localLinkName" />
5539         <xs:enumeration value="metroStationName" />
5540         <xs:enumeration value="nationName" />
5541         <xs:enumeration value="nonLinkedPointName" />
5542         <xs:enumeration value="parkingFacilityName" />
5543         <xs:enumeration value="pointName" />
5544         <xs:enumeration value="pointOfInterestName" />
5545         <xs:enumeration value="railwayStation" />
5546         <xs:enumeration value="regionName" />
5547         <xs:enumeration value="riverName" />
5548         <xs:enumeration value="seaName" />
5549         <xs:enumeration value="serviceAreaName" />
5550         <xs:enumeration value="tidalRiverName" />
5551         <xs:enumeration value="townName" />
5552         <xs:enumeration value="other" />
5553     </xs:restriction>
5554 </xs:simpleType>
5555 <xs:simpleType name="TpegLoc04HeightTypeEnum">
5556     <xs:restriction base="xs:string">
5557         <xs:enumeration value="above" />
5558         <xs:enumeration value="aboveSeaLevel" />
5559         <xs:enumeration value="aboveStreetLevel" />
5560         <xs:enumeration value="at" />
5561         <xs:enumeration value="atSeaLevel" />
5562         <xs:enumeration value="atStreetLevel" />
5563         <xs:enumeration value="below" />
5564         <xs:enumeration value="belowSeaLevel" />
5565         <xs:enumeration value="belowStreetLevel" />
5566         <xs:enumeration value="undefined" />
5567         <xs:enumeration value="unknown" />
5568         <xs:enumeration value="other" />
5569     </xs:restriction>
5570 </xs:simpleType>
5571 <xs:complexType name="TpegNamedOnlyArea">
5572     <xs:complexContent>
5573         <xs:extension base="D2LogicalModel:TpegAreaLocation">
5574             <xs:sequence>
5575                 <xs:element name="name" type="D2LogicalModel:TpegAreaDescriptor"
5576                     maxOccurs="unbounded" />
5577                 <xs:element name="tpegNamedOnlyAreaExtension"
5578                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />

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5577         </xs:sequence>
5578     </xs:extension>
5579 </xs:complexContent>
5580 </xs:complexType>
5581 <xs:complexType name="TpegNonJunctionPoint">
5582     <xs:complexContent>
5583         <xs:extension base="D2LogicalModel:TpegPoint">
5584             <xs:sequence>
5585                 <xs:element name="pointCoordinates" type="D2LogicalModel:PointCoordinates"
5586                     />
5587                 <xs:element name="name" type="D2LogicalModel:TpegOtherPointDescriptor"
5588                     maxOccurs="unbounded" />
5589                 <xs:element name="tpegNonJunctionPointExtension"
5590                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5591             </xs:sequence>
5592         </xs:extension>
5593     </xs:complexContent>
5594 </xs:complexType>
5595 <xs:complexType name="TpegOtherPointDescriptor">
5596     <xs:complexContent>
5597         <xs:extension base="D2LogicalModel:TpegPointDescriptor">
5598             <xs:sequence>
5599                 <xs:element name="tpegOtherPointDescriptorType"
5600                     type="D2LogicalModel:TpegLoc03OtherPointDescriptorSubtypeEnum"
5601                     minOccurs="1" maxOccurs="1" />
5602                 <xs:element name="tpegOtherPointDescriptorExtension"
5603                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5604             </xs:sequence>
5605         </xs:extension>
5606     </xs:complexContent>
5607 </xs:complexType>
5608 <xs:complexType name="TpegPoint" abstract="true">
5609     <xs:sequence>
5610         <xs:element name="tpegPointExtension" type="D2LogicalModel:_ExtensionType"
5611             minOccurs="0" />
5612     </xs:sequence>
5613 </xs:complexType>
5614 <xs:complexType name="TpegPointDescriptor" abstract="true">
5615     <xs:complexContent>
5616         <xs:extension base="D2LogicalModel:TpegDescriptor">
5617             <xs:sequence>
5618                 <xs:element name="tpegPointDescriptorExtension"
5619                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5620             </xs:sequence>
5621         </xs:extension>
5622     </xs:complexContent>
5623 </xs:complexType>
5624 <xs:complexType name="TpegPointLocation" abstract="true">
5625     <xs:sequence>
5626         <xs:element name="tpegDirection" type="D2LogicalModel:DirectionEnum"
5627             minOccurs="1" maxOccurs="1" />
5628         <xs:element name="tpegPointLocationExtension"
5629             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5630     </xs:sequence>
5631 </xs:complexType>
5632 <xs:complexType name="TpegSimplePoint">
5633     <xs:complexContent>
5634         <xs:extension base="D2LogicalModel:TpegPointLocation">
5635             <xs:sequence>
5636                 <xs:element name="tpegSimplePointLocationType"
5637                     type="D2LogicalModel:TpegLoc01SimplePointLocationSubtypeEnum"
5638                     minOccurs="1" maxOccurs="1" />
5639                 <xs:element name="point" type="D2LogicalModel:TpegPoint" />
5640                 <xs:element name="tpegSimplePointExtension"
5641                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5642             </xs:sequence>
5643         </xs:extension>
5644     </xs:complexContent>
5645 </xs:complexType>
5646 <xs:complexType name="TrafficConcentration">
5647     <xs:complexContent>
5648         <xs:extension base="D2LogicalModel:TrafficData">

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5636         <xs:sequence>
5637             <xs:element name="concentration"
5638                 type="D2LogicalModel:ConcentrationOfVehiclesValue" minOccurs="0" />
5639             <xs:element name="occupancy" type="D2LogicalModel:PercentageValue"
5640                 minOccurs="0" />
5641             <xs:element name="trafficConcentrationExtension"
5642                 type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5643         </xs:sequence>
5644     </xs:extension>
5645 </xs:complexType>
5646 </xs:complexType>
5647 <xs:simpleType name="TrafficConstrictionTypeEnum">
5648     <xs:restriction base="xs:string">
5649         <xs:enumeration value="carriagewayBlocked" />
5650         <xs:enumeration value="carriagewayPartiallyObstructed" />
5651         <xs:enumeration value="lanesBlocked" />
5652         <xs:enumeration value="lanesPartiallyObstructed" />
5653         <xs:enumeration value="roadBlocked" />
5654         <xs:enumeration value="roadPartiallyObstructed" />
5655     </xs:restriction>
5656 </xs:simpleType>
5657 <xs:complexType name="TrafficData" abstract="true">
5658     <xs:complexContent>
5659         <xs:extension base="D2LogicalModel:BasicData">
5660             <xs:sequence>
5661                 <xs:element name="forVehiclesWithCharacteristicsOf"
5662                     type="D2LogicalModel:VehicleCharacteristics" minOccurs="0" />
5663                 <xs:element name="trafficDataExtension"
5664                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5665             </xs:sequence>
5666         </xs:extension>
5667     </xs:complexContent>
5668 </xs:complexType>
5669 <xs:complexType name="TrafficElement" abstract="true">
5670     <xs:complexContent>
5671         <xs:extension base="D2LogicalModel:SituationRecord">
5672             <xs:sequence>
5673                 <xs:element name="trafficElementExtension"
5674                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5675             </xs:sequence>
5676         </xs:extension>
5677     </xs:complexContent>
5678 </xs:complexType>
5679 <xs:complexType name="TrafficFlow">
5680     <xs:complexContent>
5681         <xs:extension base="D2LogicalModel:TrafficData">
5682             <xs:sequence>
5683                 <xs:element name="axleFlow" type="D2LogicalModel:AxleFlowValue"
5684                     minOccurs="0" />
5685                 <xs:element name="pcuFlow" type="D2LogicalModel:PcuFlowValue"
5686                     minOccurs="0" />
5687                 <xs:element name="percentageLongVehicles"
5688                     type="D2LogicalModel:PercentageValue" minOccurs="0" />
5689                 <xs:element name="vehicleFlow" type="D2LogicalModel:VehicleFlowValue"
5690                     minOccurs="0" />
5691                 <xs:element name="trafficFlowExtension"
5692                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5693             </xs:sequence>
5694         </xs:extension>
5695     </xs:complexContent>
5696 </xs:complexType>
5697 <xs:simpleType name="TrafficFlowCharacteristicsEnum">
5698     <xs:restriction base="xs:string">
5699         <xs:enumeration value="erraticFlow" />
5700         <xs:enumeration value="smoothFlow" />
5701         <xs:enumeration value="stopAndGo" />
5702         <xs:enumeration value="trafficBlocked" />
5703     </xs:restriction>
5704 </xs:simpleType>
5705 <xs:complexType name="TrafficHeadway">
5706     <xs:complexContent>
5707         <xs:extension base="D2LogicalModel:TrafficData">

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5697         <xs:sequence>
5698             <xs:element name="averageDistanceHeadway"
5699                 type="D2LogicalModel:FloatingPointMetreDistanceValue" minOccurs="0" />
5700             <xs:element name="averageTimeHeadway" type="D2LogicalModel:DurationValue"
5701                 minOccurs="0" />
5702             <xs:element name="trafficHeadwayExtension"
5703                 type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5704         </xs:sequence>
5705     </xs:extension>
5706 </xs:complexContent>
5707 </xs:complexType>
5708 <xs:complexType name="TrafficSpeed">
5709     <xs:complexContent>
5710         <xs:extension base="D2LogicalModel:TrafficData">
5711             <xs:sequence>
5712                 <xs:element name="averageVehicleSpeed" type="D2LogicalModel:SpeedValue"
5713                     minOccurs="0" />
5714                 <xs:element name="speedPercentile" type="D2LogicalModel:SpeedPercentile"
5715                     minOccurs="0" />
5716                 <xs:element name="trafficSpeedExtension"
5717                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5718             </xs:sequence>
5719         </xs:extension>
5720     </xs:complexContent>
5721 </xs:complexType>
5722 <xs:complexType name="TrafficStatus">
5723     <xs:complexContent>
5724         <xs:extension base="D2LogicalModel:BasicData">
5725             <xs:sequence>
5726                 <xs:element name="trafficTrendType"
5727                     type="D2LogicalModel:TrafficTrendTypeEnum" minOccurs="0" maxOccurs="1" />
5728                 <xs:element name="trafficStatus" type="D2LogicalModel:TrafficStatusValue"
5729                     minOccurs="0" />
5730                 <xs:element name="trafficStatusExtension"
5731                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5732             </xs:sequence>
5733         </xs:extension>
5734     </xs:complexContent>
5735 </xs:complexType>
5736 <xs:simpleType name="TrafficStatusEnum">
5737     <xs:restriction base="xs:string">
5738         <xs:enumeration value="impossible" />
5739         <xs:enumeration value="congested" />
5740         <xs:enumeration value="heavy" />
5741         <xs:enumeration value="freeFlow" />
5742         <xs:enumeration value="unknown" />
5743     </xs:restriction>
5744 </xs:simpleType>
5745 <xs:complexType name="TrafficStatusValue">
5746     <xs:complexContent>
5747         <xs:extension base="D2LogicalModel:DataValue">
5748             <xs:sequence>
5749                 <xs:element name="trafficStatusValue"
5750                     type="D2LogicalModel:TrafficStatusEnum" minOccurs="1" maxOccurs="1" />
5751                 <xs:element name="trafficStatusValueExtension"
5752                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5753             </xs:sequence>
5754         </xs:extension>
5755     </xs:complexContent>
5756 </xs:complexType>
5757 <xs:simpleType name="TrafficTrendTypeEnum">
5758     <xs:restriction base="xs:string">
5759         <xs:enumeration value="trafficBuildingUp" />
5760         <xs:enumeration value="trafficEasing" />
5761         <xs:enumeration value="trafficStable" />
5762         <xs:enumeration value="unknown" />
5763     </xs:restriction>
5764 </xs:simpleType>
5765 <xs:simpleType name="TrafficTypeEnum">
5766     <xs:restriction base="xs:string">
5767         <xs:enumeration value="accessOnlyTraffic" />
5768         <xs:enumeration value="destinedForAirport" />

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5758     <xs:enumeration value="destinedForAirportArrivals" />
5759     <xs:enumeration value="destinedForAirportDepartures" />
5760     <xs:enumeration value="destinedForFerryService" />
5761     <xs:enumeration value="destinedForRailService" />
5762     <xs:enumeration value="holidayTraffic" />
5763     <xs:enumeration value="localTraffic" />
5764     <xs:enumeration value="longDistanceTraffic" />
5765     <xs:enumeration value="regionalTraffic" />
5766     <xs:enumeration value="residentsOnlyTraffic" />
5767     <xs:enumeration value="throughTraffic" />
5768     <xs:enumeration value="visitorTraffic" />
5769   </xs:restriction>
5770 </xs:simpleType>
5771 <xs:complexType name="TrafficView">
5772   <xs:sequence>
5773     <xs:element name="trafficViewTime" type="D2LogicalModel:DateTime"
5774       minOccurs="1" maxOccurs="1" />
5775     <xs:element name="predefinedNonOrderedLocationGroupReference"
5776       type="D2LogicalModel:_PredefinedNonOrderedLocationGroupVersionedReference"
5777       minOccurs="1" maxOccurs="1" />
5778     <xs:element name="linearTrafficView" type="D2LogicalModel:LinearTrafficView"
5779       maxOccurs="unbounded" />
5780     <xs:element name="trafficViewExtension" type="D2LogicalModel:_ExtensionType"
5781       minOccurs="0" />
5782   </xs:sequence>
5783   <xs:attribute name="id" type="xs:string" use="required" />
5784 </xs:complexType>
5785 <xs:complexType name="TrafficViewPublication">
5786   <xs:complexContent>
5787     <xs:extension base="D2LogicalModel:PayloadPublication">
5788       <xs:sequence>
5789         <xs:element name="headerInformation"
5790           type="D2LogicalModel:HeaderInformation" />
5791         <xs:element name="trafficView" type="D2LogicalModel:TrafficView"
5792           maxOccurs="unbounded" />
5793         <xs:element name="trafficViewPublicationExtension"
5794           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5795       </xs:sequence>
5796     </xs:extension>
5797   </xs:complexContent>
5798 </xs:complexType>
5799 <xs:complexType name="TrafficViewRecord">
5800   <xs:sequence>
5801     <xs:element name="recordSequenceNumber"
5802       type="D2LogicalModel:NonNegativeInteger" minOccurs="1" maxOccurs="1" />
5803     <xs:element name="trafficElement" type="D2LogicalModel:TrafficElement"
5804       minOccurs="0" />
5805     <xs:element name="operatorAction" type="D2LogicalModel:OperatorAction"
5806       minOccurs="0" />
5807     <xs:element name="elaboratedData" type="D2LogicalModel:ElaboratedData"
5808       minOccurs="0" />
5809     <xs:element name="urlLink" type="D2LogicalModel:UrlLink" minOccurs="0"
5810       maxOccurs="unbounded" />
5811     <xs:element name="trafficViewRecordExtension"
5812       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5813   </xs:sequence>
5814   <xs:attribute name="id" type="xs:string" use="required" />
5815 </xs:complexType>
5816 <xs:complexType name="TransitInformation">
5817   <xs:complexContent>
5818     <xs:extension base="D2LogicalModel:NonRoadEventInformation">
5819       <xs:sequence>
5820         <xs:element name="journeyDestination"
5821           type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
5822         <xs:element name="journeyOrigin" type="D2LogicalModel:MultilingualString"
5823           minOccurs="0" maxOccurs="1" />
5824         <xs:element name="journeyReference" type="D2LogicalModel:String"
5825           minOccurs="0" maxOccurs="1" />
5826         <xs:element name="transitServiceInformation"
5827           type="D2LogicalModel:TransitServiceInformationEnum" minOccurs="1"
5828           maxOccurs="1" />
5829         <xs:element name="transitServiceType"

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5811         type="D2LogicalModel:TransitServiceTypeEnum" minOccurs="1" maxOccurs="1" />
5812         <xs:element name="scheduledDepartureTime" type="D2LogicalModel:DateTime"
5813             minOccurs="0" maxOccurs="1" />
5814         <xs:element name="transitInformationExtension"
5815             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5816     </xs:sequence>
5817 </xs:extension>
5818 </xs:complexContent>
5819 </xs:complexType>
5820 <xs:simpleType name="TransitServiceInformationEnum">
5821     <xs:restriction base="xs:string">
5822         <xs:enumeration value="cancellations" />
5823         <xs:enumeration value="delayDueToBadWeather" />
5824         <xs:enumeration value="delayDueToRepairs" />
5825         <xs:enumeration value="delayedUntilFurtherNotice" />
5826         <xs:enumeration value="delaysDueToFlotsam" />
5827         <xs:enumeration value="departureOnSchedule" />
5828         <xs:enumeration value="ferryReplacedByIceRoad" />
5829         <xs:enumeration value="freeShuttleServiceOperating" />
5830         <xs:enumeration value="informationServiceNotAvailable" />
5831         <xs:enumeration value="irregularServiceDelays" />
5832         <xs:enumeration value="loadCapacityChanged" />
5833         <xs:enumeration value="restrictionsForLongerVehicles" />
5834         <xs:enumeration value="serviceDelays" />
5835         <xs:enumeration value="serviceDelaysOfUncertainDuration" />
5836         <xs:enumeration value="serviceFullyBooked" />
5837         <xs:enumeration value="serviceNotOperating" />
5838         <xs:enumeration value="serviceNotOperatingSubstituteServiceAvailable" />
5839         <xs:enumeration value="serviceSuspended" />
5840         <xs:enumeration value="serviceWithdrawn" />
5841         <xs:enumeration value="shuttleServiceOperating" />
5842         <xs:enumeration value="temporaryChangesToTimetables" />
5843         <xs:enumeration value="other" />
5844     </xs:restriction>
5845 </xs:simpleType>
5846 <xs:simpleType name="TransitServiceTypeEnum">
5847     <xs:restriction base="xs:string">
5848         <xs:enumeration value="air" />
5849         <xs:enumeration value="bus" />
5850         <xs:enumeration value="ferry" />
5851         <xs:enumeration value="hydrofoil" />
5852         <xs:enumeration value="rail" />
5853         <xs:enumeration value="tram" />
5854         <xs:enumeration value="undergroundMetro" />
5855     </xs:restriction>
5856 </xs:simpleType>
5857 <xs:complexType name="TravelTimeData">
5858     <xs:complexContent>
5859         <xs:extension base="D2LogicalModel:BasicData">
5860             <xs:sequence>
5861                 <xs:element name="travelTimeTrendType"
5862                     type="D2LogicalModel:TravelTimeTrendTypeEnum" minOccurs="0" maxOccurs="1" />
5863                 <xs:element name="travelTimeType" type="D2LogicalModel:TravelTimeTypeEnum"
5864                     minOccurs="0" maxOccurs="1" />
5865                 <xs:element name="vehicleType" type="D2LogicalModel:VehicleTypeEnum"
5866                     minOccurs="0" maxOccurs="unbounded" />
5867                 <xs:element name="travelTime" type="D2LogicalModel:DurationValue"
5868                     minOccurs="0" />
5869                 <xs:element name="freeFlowTravelTime" type="D2LogicalModel:DurationValue"
5870                     minOccurs="0" />
5871                 <xs:element name="normallyExpectedTravelTime"
5872                     type="D2LogicalModel:DurationValue" minOccurs="0" />
5873                 <xs:element name="freeFlowSpeed" type="D2LogicalModel:SpeedValue"
5874                     minOccurs="0" />
5875                 <xs:element name="travelTimeDataExtension"
5876                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5877             </xs:sequence>
5878         </xs:extension>
5879     </xs:complexContent>
5880 </xs:complexType>
5881 <xs:simpleType name="TravelTimeTrendTypeEnum">
5882     <xs:restriction base="xs:string">

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5872     <xs:enumeration value="decreasing" />
5873     <xs:enumeration value="increasing" />
5874     <xs:enumeration value="stable" />
5875 </xs:restriction>
5876 </xs:simpleType>
5877 <xs:simpleType name="TravelTimeTypeEnum">
5878   <xs:restriction base="xs:string">
5879     <xs:enumeration value="best" />
5880     <xs:enumeration value="estimated" />
5881     <xs:enumeration value="instantaneous" />
5882     <xs:enumeration value="reconstituted" />
5883   </xs:restriction>
5884 </xs:simpleType>
5885 <xs:simpleType name="TruckParkingDynamicManagementEnum">
5886   <xs:restriction base="xs:string">
5887     <xs:enumeration value="compactParking" />
5888     <xs:enumeration value="queueParking" />
5889     <xs:enumeration value="noDynamicParkingManagement" />
5890     <xs:enumeration value="other" />
5891   </xs:restriction>
5892 </xs:simpleType>
5893 <xs:simpleType name="UpdateMethodEnum">
5894   <xs:restriction base="xs:string">
5895     <xs:enumeration value="allElementUpdate" />
5896     <xs:enumeration value="singleElementUpdate" />
5897     <xs:enumeration value="snapshot" />
5898   </xs:restriction>
5899 </xs:simpleType>
5900 <xs:complexType name="UrbanParkingSite">
5901   <xs:complexContent>
5902     <xs:extension base="D2LogicalModel:ParkingSite">
5903       <xs:sequence>
5904         <xs:element name="urbanParkingSiteType"
5905           type="D2LogicalModel:UrbanParkingSiteTypeEnum" minOccurs="1" maxOccurs="1"
5906           />
5907         <xs:element name="parkingZone" type="D2LogicalModel:MultilingualString"
5908           minOccurs="0" maxOccurs="1" />
5909         <xs:element name="urbanParkingSiteExtension"
5910           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5911       </xs:sequence>
5912     </xs:extension>
5913   </xs:complexContent>
5914 </xs:complexType>
5915 <xs:simpleType name="UrbanParkingSiteTypeEnum">
5916   <xs:restriction base="xs:string">
5917     <xs:enumeration value="onStreetParking" />
5918     <xs:enumeration value="offStreetParking" />
5919     <xs:enumeration value="other" />
5920   </xs:restriction>
5921 </xs:simpleType>
5922 <xs:simpleType name="UrgencyEnum">
5923   <xs:restriction base="xs:string">
5924     <xs:enumeration value="extremelyUrgent" />
5925     <xs:enumeration value="urgent" />
5926     <xs:enumeration value="normalUrgency" />
5927   </xs:restriction>
5928 </xs:simpleType>
5929 <xs:simpleType name="Url">
5930   <xs:restriction base="xs:anyURI" />
5931 </xs:simpleType>
5932 <xs:complexType name="UrlLink">
5933   <xs:sequence>
5934     <xs:element name="urlLinkAddress" type="D2LogicalModel:Url" minOccurs="1"
5935       maxOccurs="1" />
5936     <xs:element name="urlLinkDescription" type="D2LogicalModel:MultilingualString"
5937       minOccurs="0" maxOccurs="1" />
5938     <xs:element name="urlLinkType" type="D2LogicalModel:UrlLinkTypeEnum"
5939       minOccurs="0" maxOccurs="1" />
5940     <xs:element name="urlLinkExtension" type="D2LogicalModel:_ExtensionType"
5941       minOccurs="0" />
5942   </xs:sequence>
5943 </xs:complexType>

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5936 <xs:simpleType name="UrlLinkTypeEnum">
5937   <xs:restriction base="xs:string">
5938     <xs:enumeration value="documentPdf" />
5939     <xs:enumeration value="html" />
5940     <xs:enumeration value="image" />
5941     <xs:enumeration value="rss" />
5942     <xs:enumeration value="videoStream" />
5943     <xs:enumeration value="voiceStream" />
5944     <xs:enumeration value="other" />
5945   </xs:restriction>
5946 </xs:simpleType>
5947 <xs:complexType name="UsedPaymentCard">
5948   <xs:sequence>
5949     <xs:element name="paymentCard" type="D2LogicalModel:PaymentCardTypeEnum"
5950       minOccurs="1" maxOccurs="1" />
5951     <xs:element name="otherPaymentCard" type="D2LogicalModel:String" minOccurs="0"
5952       maxOccurs="1" />
5953     <xs:element name="paymentCardBrand"
5954       type="D2LogicalModel:PaymentCardBrandsEnum" minOccurs="0" maxOccurs="1" />
5955     <xs:element name="otherPaymentCardBrand" type="D2LogicalModel:String"
5956       minOccurs="0" maxOccurs="1" />
5957     <xs:element name="usedPaymentCardExtension"
5958       type="D2LogicalModel:_ExtensionType" minOccurs="0" />
5959   </xs:sequence>
5960 </xs:complexType>
5961 <xs:simpleType name="UserTypeEnum">
5962   <xs:restriction base="xs:string">
5963     <xs:enumeration value="allUsers" />
5964     <xs:enumeration value="shoppers" />
5965     <xs:enumeration value="hotelGuests" />
5966     <xs:enumeration value="subscribers" />
5967     <xs:enumeration value="reservationHolders" />
5968     <xs:enumeration value="seasonTicketHolders" />
5969     <xs:enumeration value="registeredDisabledUsers" />
5970     <xs:enumeration value="disabled" />
5971     <xs:enumeration value="handicapped" />
5972     <xs:enumeration value="hearingImpaired" />
5973     <xs:enumeration value="visuallyImpaired" />
5974     <xs:enumeration value="wheelchairUsers" />
5975     <xs:enumeration value="elderlyUsers" />
5976     <xs:enumeration value="families" />
5977     <xs:enumeration value="men" />
5978     <xs:enumeration value="women" />
5979     <xs:enumeration value="pregnantWomen" />
5980     <xs:enumeration value="pensioners" />
5981     <xs:enumeration value="students" />
5982     <xs:enumeration value="staff" />
5983     <xs:enumeration value="employees" />
5984     <xs:enumeration value="customers" />
5985     <xs:enumeration value="visitors" />
5986     <xs:enumeration value="members" />
5987     <xs:enumeration value="shortTermParker" />
5988     <xs:enumeration value="longTermParker" />
5989     <xs:enumeration value="overnightParker" />
5990     <xs:enumeration value="sportEventAwaySupporters" />
5991     <xs:enumeration value="sportEventHomeSupporters" />
5992     <xs:enumeration value="residents" />
5993     <xs:enumeration value="commuters" />
5994     <xs:enumeration value="parkAndRideUsers" />
5995     <xs:enumeration value="parkAndWalkUser" />
5996     <xs:enumeration value="parkAndCycleUser" />
5997     <xs:enumeration value="other" />
5998     <xs:enumeration value="unknown" />
5999   </xs:restriction>
6000 </xs:simpleType>
<xs:complexType name="Validity">
  <xs:sequence>
    <xs:element name="validityStatus" type="D2LogicalModel:ValidityStatusEnum"
      minOccurs="1" maxOccurs="1" />
    <xs:element name="overrunning" type="D2LogicalModel:Boolean" minOccurs="0"
      maxOccurs="1" />
    <xs:element name="validityTimeSpecification"

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        type="D2LogicalModel:OverallPeriod" />
6001 <xs:element name="validityExtension" type="D2LogicalModel:_ExtensionType"
        minOccurs="0" />
6002 </xs:sequence>
6003 </xs:complexType>
6004 <xs:simpleType name="ValidityStatusEnum">
6005 <xs:restriction base="xs:string">
6006 <xs:enumeration value="active" />
6007 <xs:enumeration value="suspended" />
6008 <xs:enumeration value="definedByValidityTimeSpec" />
6009 </xs:restriction>
6010 </xs:simpleType>
6011 <xs:complexType name="Vehicle">
6012 <xs:sequence>
6013 <xs:element name="vehicleColour" type="D2LogicalModel:MultilingualString"
        minOccurs="0" maxOccurs="1" />
6014 <xs:element name="vehicleCountryOfOrigin"
        type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
6015 <xs:element name="vehicleIdentifier" type="D2LogicalModel:String"
        minOccurs="0" maxOccurs="1" />
6016 <xs:element name="vehicleManufacturer" type="D2LogicalModel:String"
        minOccurs="0" maxOccurs="1" />
6017 <xs:element name="vehicleModel" type="D2LogicalModel:String" minOccurs="0"
        maxOccurs="1" />
6018 <xs:element name="vehicleRegistrationPlateIdentifier"
        type="D2LogicalModel:String" minOccurs="0" maxOccurs="1" />
6019 <xs:element name="vehicleStatus" type="D2LogicalModel:VehicleStatusEnum"
        minOccurs="0" maxOccurs="1" />
6020 <xs:element name="vehicleCharacteristics"
        type="D2LogicalModel:VehicleCharacteristics" minOccurs="0" />
6021 <xs:element name="axleSpacingOnVehicle" type="D2LogicalModel:AxleSpacing"
        minOccurs="0" maxOccurs="unbounded" />
6022 <xs:element name="specificAxleWeight" type="D2LogicalModel:AxleWeight"
        minOccurs="0" maxOccurs="unbounded" />
6023 <xs:element name="hazardousGoodsAssociatedWithVehicle"
        type="D2LogicalModel:HazardousMaterials" minOccurs="0" />
6024 <xs:element name="vehicleExtension" type="D2LogicalModel:_ExtensionType"
        minOccurs="0" />
6025 </xs:sequence>
6026 </xs:complexType>
6027 <xs:complexType name="VehicleCharacteristics">
6028 <xs:sequence>
6029 <xs:element name="fuelType" type="D2LogicalModel:FuelTypeEnum" minOccurs="0"
        maxOccurs="1" />
6030 <xs:element name="loadType" type="D2LogicalModel:LoadTypeEnum" minOccurs="0"
        maxOccurs="1" />
6031 <xs:element name="vehicleEquipment" type="D2LogicalModel:VehicleEquipmentEnum"
        minOccurs="0" maxOccurs="1" />
6032 <xs:element name="vehicleType" type="D2LogicalModel:VehicleTypeEnum"
        minOccurs="0" maxOccurs="unbounded" />
6033 <xs:element name="vehicleUsage" type="D2LogicalModel:VehicleUsageEnum"
        minOccurs="0" maxOccurs="1" />
6034 <xs:element name="grossWeightCharacteristic"
        type="D2LogicalModel:GrossWeightCharacteristic" minOccurs="0" maxOccurs="2" />
6035 <xs:element name="heightCharacteristic"
        type="D2LogicalModel:HeightCharacteristic" minOccurs="0" maxOccurs="2" />
6036 <xs:element name="lengthCharacteristic"
        type="D2LogicalModel:LengthCharacteristic" minOccurs="0" maxOccurs="2" />
6037 <xs:element name="widthCharacteristic"
        type="D2LogicalModel:WidthCharacteristic" minOccurs="0" maxOccurs="2" />
6038 <xs:element name="heaviestAxleWeightCharacteristic"
        type="D2LogicalModel:HeaviestAxleWeightCharacteristic" minOccurs="0"
        maxOccurs="2" />
6039 <xs:element name="numberOfAxlesCharacteristic"
        type="D2LogicalModel:NumberOfAxlesCharacteristic" minOccurs="0" maxOccurs="2" />
6040 <xs:element name="vehicleCharacteristicsExtension"
        type="D2LogicalModel:_VehicleCharacteristicsExtensionType" minOccurs="0" />
6041 </xs:sequence>
6042 </xs:complexType>
6043 <xs:complexType name="VehicleCharacteristicsExtended">
6044 <xs:sequence>
6045 <xs:element name="emissionClassification" type="D2LogicalModel:String"

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minOccurs="0" maxOccurs="unbounded" />
6046 <xs:element name="operationFreeOfEmission" type="D2LogicalModel:Boolean"
minOccurs="0" maxOccurs="1" />
6047 <xs:element name="loadType2" type="D2LogicalModel:LoadType2Enum" minOccurs="0"
maxOccurs="1" />
6048 <xs:element name="vehicleType2" type="D2LogicalModel:VehicleType2Enum"
minOccurs="0" maxOccurs="1" />
6049 <xs:element name="fuelType2" type="D2LogicalModel:FuelType2Enum" minOccurs="0"
maxOccurs="1" />
6050 <xs:element name="vehicleUsage2" type="D2LogicalModel:VehicleUsage2Enum"
minOccurs="0" maxOccurs="1" />
6051 </xs:sequence>
6052 </xs:complexType>
6053 <xs:complexType name="VehicleCountAndRate">
6054 <xs:sequence>
6055 <xs:element name="measurementSiteReference"
type="D2LogicalModel:_MeasurementSiteRecordVersionedReference" minOccurs="0"
maxOccurs="1" />
6056 <xs:element name="measuredValueIndex" type="D2LogicalModel:NonNegativeInteger"
minOccurs="0" maxOccurs="1" />
6057 <xs:element name="dedicatedAccess"
type="D2LogicalModel:_ParkingAccessReference" minOccurs="0" maxOccurs="1" />
6058 <xs:element name="measurementTimeDefault" type="D2LogicalModel:DateTime"
minOccurs="0" maxOccurs="1" />
6059 <xs:element name="lastCalibration" type="D2LogicalModel:DateTime"
minOccurs="0" maxOccurs="1" />
6060 <xs:element name="coveringPetrolStationArea" type="D2LogicalModel:Boolean"
minOccurs="0" maxOccurs="1" />
6061 <xs:element name="vehicleCountWithinInterval"
type="D2LogicalModel:VehicleCountWithinInterval" minOccurs="0"
maxOccurs="unbounded" />
6062 <xs:element name="vehicleRate" type="D2LogicalModel:VehicleRate" minOccurs="0"
maxOccurs="unbounded" />
6063 <xs:element name="vehicleCountAndRateExtension"
type="D2LogicalModel:_ExtensionType" minOccurs="0" />
6064 </xs:sequence>
6065 </xs:complexType>
6066 <xs:complexType name="VehicleCountValue">
6067 <xs:complexContent>
6068 <xs:extension base="D2LogicalModel:DataValue">
6069 <xs:sequence>
6070 <xs:element name="vehicleCount" type="D2LogicalModel:NonNegativeInteger"
minOccurs="1" maxOccurs="1" />
6071 <xs:element name="vehicleCountValueExtension"
type="D2LogicalModel:_ExtensionType" minOccurs="0" />
6072 </xs:sequence>
6073 </xs:extension>
6074 </xs:complexContent>
6075 </xs:complexType>
6076 <xs:complexType name="VehicleCountWithinInterval">
6077 <xs:sequence>
6078 <xs:element name="measurementOrCalculationTime" type="D2LogicalModel:DateTime"
minOccurs="0" maxOccurs="1" />
6079 <xs:element name="measurementInterval" type="D2LogicalModel:Seconds"
minOccurs="1" maxOccurs="1" />
6080 <xs:element name="numberOfIncomingVehicles"
type="D2LogicalModel:VehicleCountValue" minOccurs="0" />
6081 <xs:element name="numberOfOutgoingVehicles"
type="D2LogicalModel:VehicleCountValue" minOccurs="0" />
6082 <xs:element name="changeOfOccupiedSpaces"
type="D2LogicalModel:OccupancyChangeValue" minOccurs="0" />
6083 <xs:element name="countedVehicles"
type="D2LogicalModel:VehicleCharacteristics" minOccurs="0" />
6084 <xs:element name="vehicleCountWithinIntervalExtension"
type="D2LogicalModel:_ExtensionType" minOccurs="0" />
6085 </xs:sequence>
6086 </xs:complexType>
6087 <xs:simpleType name="VehicleEquipmentEnum">
6088 <xs:restriction base="xs:string">
6089 <xs:enumeration value="notUsingSnowChains" />
6090 <xs:enumeration value="notUsingSnowChainsOrTyres" />
6091 <xs:enumeration value="snowChainsInUse" />

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6092     <xs:enumeration value="snowTyresInUse" />
6093     <xs:enumeration value="snowChainsOrTyresInUse" />
6094     <xs:enumeration value="withoutSnowTyresOrChainsOnBoard" />
6095   </xs:restriction>
6096 </xs:simpleType>
6097 <xs:complexType name="VehicleFlowValue">
6098   <xs:complexContent>
6099     <xs:extension base="D2LogicalModel:DataValue">
6100       <xs:sequence>
6101         <xs:element name="vehicleFlowRate" type="D2LogicalModel:VehiclesPerHour"
6102           minOccurs="1" maxOccurs="1" />
6103         <xs:element name="vehicleFlowValueExtension"
6104           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
6105       </xs:sequence>
6106     </xs:extension>
6107   </xs:complexContent>
6108 </xs:complexType>
6109 <xs:complexType name="VehicleObstruction">
6110   <xs:complexContent>
6111     <xs:extension base="D2LogicalModel:Obstruction">
6112       <xs:sequence>
6113         <xs:element name="vehicleObstructionType"
6114           type="D2LogicalModel:VehicleObstructionTypeEnum" minOccurs="1"
6115           maxOccurs="1" />
6116         <xs:element name="obstructingVehicle" type="D2LogicalModel:Vehicle"
6117           minOccurs="0" maxOccurs="unbounded" />
6118         <xs:element name="vehicleObstructionExtension"
6119           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
6120       </xs:sequence>
6121     </xs:extension>
6122   </xs:complexContent>
6123 </xs:complexType>
6124 <xs:simpleType name="VehicleObstructionTypeEnum">
6125   <xs:restriction base="xs:string">
6126     <xs:enumeration value="abandonedVehicle" />
6127     <xs:enumeration value="abnormalLoad" />
6128     <xs:enumeration value="brokenDownBus" />
6129     <xs:enumeration value="brokenDownHeavyLorry" />
6130     <xs:enumeration value="brokenDownVehicle" />
6131     <xs:enumeration value="convoy" />
6132     <xs:enumeration value="damagedVehicle" />
6133     <xs:enumeration value="dangerousSlowMovingVehicle" />
6134     <xs:enumeration value="emergencyVehicle" />
6135     <xs:enumeration value="highSpeedEmergencyVehicle" />
6136     <xs:enumeration value="longLoad" />
6137     <xs:enumeration value="militaryConvoy" />
6138     <xs:enumeration value="overheightVehicle" />
6139     <xs:enumeration value="prohibitedVehicleOnTheRoadway" />
6140     <xs:enumeration value="saltingOrGrittingVehicleInUse" />
6141     <xs:enumeration value="slowMovingMaintenanceVehicle" />
6142     <xs:enumeration value="slowVehicle" />
6143     <xs:enumeration value="snowplough" />
6144     <xs:enumeration value="trackLayingVehicle" />
6145     <xs:enumeration value="unlitVehicleOnTheRoad" />
6146     <xs:enumeration value="vehicleOnFire" />
6147     <xs:enumeration value="vehicleCarryingHazardousMaterials" />
6148     <xs:enumeration value="vehicleInDifficulty" />
6149     <xs:enumeration value="vehicleOnWrongCarriageway" />
6150     <xs:enumeration value="vehicleStuck" />
6151     <xs:enumeration value="vehicleStuckUnderBridge" />
6152     <xs:enumeration value="vehicleWithOverheightLoad" />
6153     <xs:enumeration value="vehicleWithOverwideLoad" />
6154     <xs:enumeration value="other" />
6155   </xs:restriction>
6156 </xs:simpleType>
6157 <xs:complexType name="VehicleRate">
6158   <xs:sequence>
6159     <xs:element name="measurementOrCalculationTime" type="D2LogicalModel:DateTime"
6160       minOccurs="0" maxOccurs="1" />
6161     <xs:element name="fillRate" type="D2LogicalModel:VehicleFlowValue"
6162       minOccurs="0" />
6163     <xs:element name="exitRate" type="D2LogicalModel:VehicleFlowValue"

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        minOccurs="0" />
6156 <xs:element name="vehicleFlowRate" type="D2LogicalModel:VehicleFlowValue"
        minOccurs="0" />
6157 <xs:element name="measuredVehicles"
        type="D2LogicalModel:VehicleCharacteristics" minOccurs="0" />
6158 <xs:element name="vehicleRateExtension" type="D2LogicalModel:_ExtensionType"
        minOccurs="0" />
6159 </xs:sequence>
6160 </xs:complexType>
6161 <xs:simpleType name="VehiclesPerHour">
6162 <xs:restriction base="D2LogicalModel:NonNegativeInteger" />
6163 </xs:simpleType>
6164 <xs:simpleType name="VehicleStatusEnum">
6165 <xs:restriction base="xs:string">
6166 <xs:enumeration value="abandoned" />
6167 <xs:enumeration value="brokenDown" />
6168 <xs:enumeration value="burntOut" />
6169 <xs:enumeration value="damaged" />
6170 <xs:enumeration value="damagedAndImmobilized" />
6171 <xs:enumeration value="onFire" />
6172 </xs:restriction>
6173 </xs:simpleType>
6174 <xs:simpleType name="VehicleType2Enum">
6175 <xs:restriction base="xs:string">
6176 <xs:enumeration value="motorhome" />
6177 <xs:enumeration value="lightGoodsVehicle" />
6178 <xs:enumeration value="heavyGoodsVehicle" />
6179 <xs:enumeration value="minibus" />
6180 <xs:enumeration value="smallCar" />
6181 <xs:enumeration value="largeCar" />
6182 <xs:enumeration value="lightGoodsVehicleWithTrailer" />
6183 <xs:enumeration value="heavyGoodsVehicleWithTrailer" />
6184 <xs:enumeration value="heavyHaulageVehicle" />
6185 <xs:enumeration value="passengerCar" />
6186 <xs:enumeration value="unknown" />
6187 </xs:restriction>
6188 </xs:simpleType>
6189 <xs:simpleType name="VehicleTypeEnum">
6190 <xs:restriction base="xs:string">
6191 <xs:enumeration value="agriculturalVehicle" />
6192 <xs:enumeration value="anyVehicle" />
6193 <xs:enumeration value="articulatedVehicle" />
6194 <xs:enumeration value="bicycle" />
6195 <xs:enumeration value="bus" />
6196 <xs:enumeration value="car" />
6197 <xs:enumeration value="caravan" />
6198 <xs:enumeration value="carOrLightVehicle" />
6199 <xs:enumeration value="carWithCaravan" />
6200 <xs:enumeration value="carWithTrailer" />
6201 <xs:enumeration value="constructionOrMaintenanceVehicle" />
6202 <xs:enumeration value="fourWheelDrive" />
6203 <xs:enumeration value="highSidedVehicle" />
6204 <xs:enumeration value="lorry" />
6205 <xs:enumeration value="moped" />
6206 <xs:enumeration value="motorcycle" />
6207 <xs:enumeration value="motorcycleWithSideCar" />
6208 <xs:enumeration value="motorscooter" />
6209 <xs:enumeration value="tanker" />
6210 <xs:enumeration value="threeWheeledVehicle" />
6211 <xs:enumeration value="trailer" />
6212 <xs:enumeration value="tram" />
6213 <xs:enumeration value="twoWheeledVehicle" />
6214 <xs:enumeration value="van" />
6215 <xs:enumeration value="vehicleWithCatalyticConverter" />
6216 <xs:enumeration value="vehicleWithoutCatalyticConverter" />
6217 <xs:enumeration value="vehicleWithCaravan" />
6218 <xs:enumeration value="vehicleWithTrailer" />
6219 <xs:enumeration value="withEvenNumberedRegistrationPlates" />
6220 <xs:enumeration value="withOddNumberedRegistrationPlates" />
6221 <xs:enumeration value="other" />
6222 </xs:restriction>
6223 </xs:simpleType>

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6224 <xs:simpleType name="VehicleUsage2Enum">
6225   <xs:restriction base="xs:string">
6226     <xs:enumeration value="cityLogistics" />
6227     <xs:enumeration value="carSharing" />
6228   </xs:restriction>
6229 </xs:simpleType>
6230 <xs:simpleType name="VehicleUsageEnum">
6231   <xs:restriction base="xs:string">
6232     <xs:enumeration value="agricultural" />
6233     <xs:enumeration value="commercial" />
6234     <xs:enumeration value="emergencyServices" />
6235     <xs:enumeration value="military" />
6236     <xs:enumeration value="nonCommercial" />
6237     <xs:enumeration value="patrol" />
6238     <xs:enumeration value="recoveryServices" />
6239     <xs:enumeration value="roadMaintenanceOrConstruction" />
6240     <xs:enumeration value="roadOperator" />
6241     <xs:enumeration value="taxi" />
6242   </xs:restriction>
6243 </xs:simpleType>
6244 <xs:complexType name="VersionedReference">
6245   <xs:attribute name="id" type="xs:string" use="required" />
6246   <xs:attribute name="version" type="xs:string" use="required" />
6247 </xs:complexType>
6248 <xs:complexType name="Visibility">
6249   <xs:sequence>
6250     <xs:element name="minimumVisibilityDistance"
6251       type="D2LogicalModel:IntegerMetreDistanceValue" />
6252     <xs:element name="visibilityExtension" type="D2LogicalModel:_ExtensionType"
6253       minOccurs="0" />
6254   </xs:sequence>
6255 </xs:complexType>
6256 <xs:complexType name="VisibilityInformation">
6257   <xs:complexContent>
6258     <xs:extension base="D2LogicalModel:WeatherData">
6259       <xs:sequence>
6260         <xs:element name="visibility" type="D2LogicalModel:Visibility" />
6261         <xs:element name="visibilityInformationExtension"
6262           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
6263       </xs:sequence>
6264     </xs:extension>
6265   </xs:complexContent>
6266 </xs:complexType>
6267 <xs:complexType name="Vms">
6268   <xs:sequence>
6269     <xs:element name="vmsWorking" type="D2LogicalModel:Boolean" minOccurs="1"
6270       maxOccurs="1" />
6271     <xs:element name="vmsMessageSequencingInterval" type="D2LogicalModel:Seconds"
6272       minOccurs="0" maxOccurs="1" />
6273     <xs:element name="vmsMessage" type="D2LogicalModel:_VmsMessageIndexVmsMessage"
6274       minOccurs="0" maxOccurs="unbounded" />
6275     <xs:element name="textDisplayAreaSettings"
6276       type="D2LogicalModel:TextDisplayAreaSettings" minOccurs="0" />
6277     <xs:element name="pictogramDisplayAreaSettings"
6278       type="D2LogicalModel:_VmsPictogramDisplayAreaIndexPictogramDisplayAreaSettings"
6279       minOccurs="0" maxOccurs="unbounded" />
6280     <!-- 17/1/2019 : Adding of Locations of the Zones (detections and relevance)
6281          by GroupOfLocations for SCOOP Project -->
6282     <xs:element name="vmsZonesLocation" type="D2LogicalModel:GroupOfLocations"
6283       minOccurs="1"/>
6284     <xs:element name="vmsLocationOverride" type="D2LogicalModel:Location"
6285       minOccurs="0" />
6286     <xs:element name="managedLogicalLocationOverride"
6287       type="D2LogicalModel:VmsManagedLogicalLocation" minOccurs="0" />
6288     <xs:element name="vmsDynamicCharacteristics"
6289       type="D2LogicalModel:VmsDynamicCharacteristics" minOccurs="0" />
6290     <xs:element name="vmsFault" type="D2LogicalModel:VmsFault" minOccurs="0"
6291       maxOccurs="unbounded" />
6292     <xs:element name="vmsExtension" type="D2LogicalModel:_ExtensionType"
6293       minOccurs="0" />
6294   </xs:sequence>
6295 </xs:complexType>

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6280 <xs:simpleType name="VmsDatexPictogramEnum">
6281   <xs:restriction base="xs:string">
6282     <xs:enumeration value="accident" />
6283     <xs:enumeration value="advisorySpeed" />
6284     <xs:enumeration value="animalsOnRoad" />
6285     <xs:enumeration value="blankVoid" />
6286     <xs:enumeration value="bridgeClosed" />
6287     <xs:enumeration value="bridgeSwingInOperation" />
6288     <xs:enumeration value="carParkFull" />
6289     <xs:enumeration value="carParkSpacesAvailable" />
6290     <xs:enumeration value="carriagewayNarrows" />
6291     <xs:enumeration value="carriagewayNarrowsOnTheLeft" />
6292     <xs:enumeration value="carriagewayNarrowsOnTheRight" />
6293     <xs:enumeration value="carriagewayReducedToOneLane" />
6294     <xs:enumeration value="carriagewayReducedToTwoLanes" />
6295     <xs:enumeration value="carriagewayReducedToThreeLanes" />
6296     <xs:enumeration value="chainsOrSnowTyresRecommended" />
6297     <xs:enumeration value="compulsoryMinimumSpeed" />
6298     <xs:enumeration value="crossWind" />
6299     <xs:enumeration value="dangerOfFire" />
6300     <xs:enumeration value="drivingOfVehiclesLessThanXMetresApartProhibited" />
6301     <xs:enumeration value="endOfAdvisorySpeed" />
6302     <xs:enumeration value="endOfCompulsoryMinimumSpeed" />
6303     <xs:enumeration value="endOfProhibitionOfOvertaking" />
6304     <xs:enumeration value="endOfProhibitionOfOvertakingForGoodsVehicles" />
6305     <xs:enumeration value="endOfSpeedLimit" />
6306     <xs:enumeration value="exitClosed" />
6307     <xs:enumeration value="fallingRocks" />
6308     <xs:enumeration value="fastenChildrensSeatBelts" />
6309     <xs:enumeration value="fastenYourSeatBelt" />
6310     <xs:enumeration value="fire" />
6311     <xs:enumeration value="floodingOrFlashFloods" />
6312     <xs:enumeration value="fog" />
6313     <xs:enumeration value="footballMatch" />
6314     <xs:enumeration value="hardShoulderNotRunning" />
6315     <xs:enumeration value="hardShoulderRunning" />
6316     <xs:enumeration value="keepASafeDistance" />
6317     <xs:enumeration value="keepLeft" />
6318     <xs:enumeration value="keepRight" />
6319     <xs:enumeration value="lane1ClosedOf2" />
6320     <xs:enumeration value="lane2ClosedOf2" />
6321     <xs:enumeration value="lane1ClosedOf3" />
6322     <xs:enumeration value="lane3ClosedOf3" />
6323     <xs:enumeration value="lanes1And2ClosedOf3" />
6324     <xs:enumeration value="lanes2And3ClosedOf3" />
6325     <xs:enumeration value="lane1ClosedOf4" />
6326     <xs:enumeration value="lane4ClosedOf4" />
6327     <xs:enumeration value="lanes1And2ClosedOf4" />
6328     <xs:enumeration value="lanes3And4ClosedOf4" />
6329     <xs:enumeration value="lanes1And2And3ClosedOf4" />
6330     <xs:enumeration value="lanes2And3And4ClosedOf4" />
6331     <xs:enumeration value="laneClosed" />
6332     <xs:enumeration value="laneDeviationToLeft" />
6333     <xs:enumeration value="laneDeviationToRight" />
6334     <xs:enumeration value="laneOpen" />
6335     <xs:enumeration value="leftHandLaneClosed" />
6336     <xs:enumeration value="lightSignals" />
6337     <xs:enumeration value="looseGravel" />
6338     <xs:enumeration value="maintenanceVehicleInAction" />
6339     <xs:enumeration value="maximumSpeedLimitedToTheFigureIndicated" />
6340     <xs:enumeration value="narrowLanesAead" />
6341     <xs:enumeration value="noEntry" />
6342     <xs:enumeration value="noEntryForAnyPowerDrivenVehicleDrawingATrailer" />
6343     <xs:enumeration
6344       value="noEntryForAnyPowerDrivenVehicleDrawingATrailerOtherThanASemiTrailerOrASin
6345       gleAxleTrailer" />
6346     <xs:enumeration value="noEntryForGoodsVehicles" />
6347     <xs:enumeration value="noEntryForVehiclesExceedingXTonnesLadenMass" />
6348     <xs:enumeration value="noEntryForVehiclesHavingAMassExceedingXTonnesOnOneAxle"
6349     />
6350     <xs:enumeration
6351       value="noEntryForVehiclesHavingAnOverallHeightExceedingXMetres" />

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6348     <xs:enumeration
6349     value="noEntryForVehiclesHavingAnOverallLengthExceedingXMetres" />
6350     <xs:enumeration value="noEntryForVehiclesHavingAnOverallWidthExceedingXMetres"
6351     />
6352     <xs:enumeration value="noEntryForVehiclesCarryingDangerousGoods" />
6353     <xs:enumeration value="otherDangers" />
6354     <xs:enumeration value="overtakingByGoodsVehiclesProhibited" />
6355     <xs:enumeration value="overtakingProhibited" />
6356     <xs:enumeration value="pollutionOrSmogAlert" />
6357     <xs:enumeration value="queue" />
6358     <xs:enumeration value="rain" />
6359     <xs:enumeration value="rightHandLaneClosed" />
6360     <xs:enumeration value="roadClosedAhead" />
6361     <xs:enumeration value="roadworks" />
6362     <xs:enumeration value="slipperyRoad" />
6363     <xs:enumeration value="smoke" />
6364     <xs:enumeration value="snow" />
6365     <xs:enumeration value="snowChainsCompulsory" />
6366     <xs:enumeration value="snowTyresCompulsory" />
6367     <xs:enumeration value="snowPloughInAction" />
6368     <xs:enumeration value="speedCamerasInAction" />
6369     <xs:enumeration value="trafficCongestion" />
6370     <xs:enumeration value="trafficDeviatedToOppositeCarriagewayAhead" />
6371     <xs:enumeration value="trafficPartiallyDeviatedToOppositeCarriagewayAhead" />
6372     <xs:enumeration value="tunnelClosed" />
6373     <xs:enumeration value="turnLeft" />
6374     <xs:enumeration value="turnRight" />
6375     <xs:enumeration value="twoWayTraffic" />
6376     <xs:enumeration value="unevenRoad" />
6377     <xs:enumeration value="vehicleFire" />
6378     <xs:enumeration value="other" />
6379   </xs:restriction>
6380 </xs:simpleType>
6381 <xs:simpleType name="VmsDatexSupplementalPictogramEnum">
6382   <xs:restriction base="xs:string">
6383     <xs:enumeration value="distanceToTheBeginningofTheApplicationZone" />
6384     <xs:enumeration value="exceptAnyPowerDrivenVehicleDrawingTrailer" />
6385     <xs:enumeration value="exceptBus" />
6386     <xs:enumeration value="exceptGoodsVehicles" />
6387     <xs:enumeration value="exceptSemiTrailer" />
6388     <xs:enumeration value="exceptVehiclesCarryingDangerousGoods" />
6389     <xs:enumeration value="inCaseOfIceOrSnow" />
6390     <xs:enumeration value="lengthOfTheApplicationZone" />
6391     <xs:enumeration value="restrictedToAnyPowerDrivenVehicleDrawingTrailer" />
6392     <xs:enumeration value="restrictedToBus" />
6393     <xs:enumeration value="restrictedToGoodsVehicles" />
6394     <xs:enumeration value="restrictedToSemiTrailer" />
6395     <xs:enumeration value="restrictedToVehiclesCarryingDangerousGoods" />
6396     <xs:enumeration value="maintenanceVehicles" />
6397     <xs:enumeration value="snowPloughs" />
6398     <xs:enumeration value="other" />
6399   </xs:restriction>
6400 </xs:simpleType>
6401 <xs:complexType name="VmsDynamicCharacteristics">
6402   <xs:sequence>
6403     <xs:element name="numberOfPictogramDisplayAreas"
6404     type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
6405     <xs:element name="vmsTextDisplayCharacteristics"
6406     type="D2LogicalModel:VmsTextDisplayCharacteristics" minOccurs="0" />
6407     <xs:element name="vmsPictogramDisplayCharacteristics"
6408     type="D2LogicalModel:_VmsDynamicCharacteristicsPictogramDisplayAreaIndexVmsPicto
6409     gramDisplayCharacteristics" minOccurs="0" maxOccurs="unbounded" />
6410     <xs:element name="vmsDynamicCharacteristicsExtension"
6411     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
6412   </xs:sequence>
6413 </xs:complexType>
6414 <xs:complexType name="VmsFault">
6415   <xs:complexContent>
6416     <xs:extension base="D2LogicalModel:Fault">
6417       <xs:sequence>
6418         <xs:element name="vmsFault" type="D2LogicalModel:VmsFaultEnum"
6419         minOccurs="1" maxOccurs="1" />

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6412         <xs:element name="vmsFaultExtension" type="D2LogicalModel:_ExtensionType"
6413             minOccurs="0" />
6414     </xs:sequence>
6415 </xs:extension>
6416 </xs:complexContent>
6417 </xs:complexType>
6418 <xs:simpleType name="VmsFaultEnum">
6419     <xs:restriction base="xs:string">
6420         <xs:enumeration value="communicationsFailure" />
6421         <xs:enumeration value="incorrectMessageDisplayed" />
6422         <xs:enumeration value="incorrectPictogramDisplayed" />
6423         <xs:enumeration value="outOfService" />
6424         <xs:enumeration value="powerFailure" />
6425         <xs:enumeration value="unableToClearDown" />
6426         <xs:enumeration value="unknown" />
6427         <xs:enumeration value="other" />
6428     </xs:restriction>
6429 </xs:simpleType>
6430 <xs:simpleType name="VmsLuminanceLevelEnum">
6431     <xs:restriction base="xs:string">
6432         <xs:enumeration value="switchedOff" />
6433         <xs:enumeration value="testing" />
6434         <xs:enumeration value="night" />
6435         <xs:enumeration value="overcast" />
6436         <xs:enumeration value="broadDaylight" />
6437         <xs:enumeration value="sunInEyes" />
6438         <xs:enumeration value="sunOnBack" />
6439         <xs:enumeration value="foggyDay" />
6440         <xs:enumeration value="foggyNight" />
6441     </xs:restriction>
6442 </xs:simpleType>
6443 <xs:complexType name="VmsManagedLogicalLocation">
6444     <xs:sequence>
6445         <xs:element name="managedLogicalLocation"
6446             type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
6447         <xs:element name="distanceFromLogicalLocation"
6448             type="D2LogicalModel:MetresAsNonNegativeInteger" minOccurs="0" maxOccurs="1" />
6449         <xs:element name="managedLocation" type="D2LogicalModel:Location"
6450             minOccurs="0" />
6451         <xs:element name="vmsManagedLogicalLocationExtension"
6452             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
6453     </xs:sequence>
6454 </xs:complexType>
6455 <xs:complexType name="VmsMessage">
6456     <xs:sequence>
6457         <xs:element name="associatedManagementOrDiversionPlan"
6458             type="D2LogicalModel:String" minOccurs="0" maxOccurs="1" />
6459         <xs:element name="messageSetBy" type="D2LogicalModel:MultilingualString"
6460             minOccurs="0" maxOccurs="1" />
6461         <xs:element name="setBySystem" type="D2LogicalModel:Boolean" minOccurs="0"
6462             maxOccurs="1" />
6463         <xs:element name="reasonForSetting" type="D2LogicalModel:MultilingualString"
6464             minOccurs="0" maxOccurs="1" />
6465         <xs:element name="codedReasonForSetting"
6466             type="D2LogicalModel:CodedReasonForSettingMessageEnum" minOccurs="0"
6467             maxOccurs="1" />
6468         <xs:element name="vmsMessageInformationType"
6469             type="D2LogicalModel:VmsMessageInformationTypeEnum" minOccurs="0"
6470             maxOccurs="unbounded" />
6471         <xs:element name="primarySetting" type="D2LogicalModel:Boolean" minOccurs="0"
6472             maxOccurs="1" />
6473         <xs:element name="mareNostrumCompliant" type="D2LogicalModel:Boolean"
6474             minOccurs="0" maxOccurs="1" />
6475         <xs:element name="timeLastSet" type="D2LogicalModel:DateTime" minOccurs="1"
6476             maxOccurs="1" />
6477         <xs:element name="requestedBy" type="D2LogicalModel:MultilingualString"
6478             minOccurs="0" maxOccurs="1" />
6479         <xs:element name="situationToWhichMessageIsRelated"
6480             type="D2LogicalModel:VersionedReference" minOccurs="0" maxOccurs="1" />
6481         <xs:element name="situationRecordToWhichMessageIsRelated"
6482             type="D2LogicalModel:VersionedReference" minOccurs="0" maxOccurs="1" />
6483         <xs:element name="distanceFromSituationRecord"

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6465     type="D2LogicalModel:MetresAsFloat" minOccurs="0" maxOccurs="1" />
6466     <xs:element name="textPictogramSequencingInterval"
        type="D2LogicalModel:Seconds" minOccurs="0" maxOccurs="1" />
6467     <xs:element name="textPage" type="D2LogicalModel:_TextPage" minOccurs="0"
        maxOccurs="unbounded" />
6468     <xs:element name="vmsPictogramDisplayArea"
        type="D2LogicalModel:_VmsMessagePictogramDisplayAreaIndexVmsPictogramDisplayArea"
        minOccurs="0" maxOccurs="unbounded" />
6469     <xs:element name="vmsMessageExtension"
        type="D2LogicalModel:_VmsMessageExtensionType" minOccurs="0" />
6470 </xs:sequence>
6471 </xs:complexType>
6472 <xs:simpleType name="VmsMessageInformationTypeEnum">
6473     <xs:restriction base="xs:string">
6474         <xs:enumeration value="campaignMessage" />
6475         <xs:enumeration value="dateTime" />
6476         <xs:enumeration value="futureInformation" />
6477         <xs:enumeration value="instructionOrMessage" />
6478         <xs:enumeration value="situationWarning" />
6479         <xs:enumeration value="temperature" />
6480         <xs:enumeration value="trafficManagement" />
6481         <xs:enumeration value="travelTime" />
6482     </xs:restriction>
6483 </xs:simpleType>
6484 <xs:complexType name="VmsPictogram">
6485     <xs:sequence>
6486         <xs:element name="pictogramDescription"
        type="D2LogicalModel:VmsDatexPictogramEnum" minOccurs="0"
        maxOccurs="unbounded" />
6487         <xs:element name="pictogramCode" type="D2LogicalModel:String" minOccurs="0"
        maxOccurs="1" />
6488         <xs:element name="pictogramUrl" type="D2LogicalModel:Url" minOccurs="0"
        maxOccurs="1" />
6489         <xs:element name="additionalPictogramDescription"
        type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
6490         <xs:element name="pictogramFlashing" type="D2LogicalModel:Boolean"
        minOccurs="0" maxOccurs="1" />
6491         <xs:element name="pictogramInInverseColour" type="D2LogicalModel:Boolean"
        minOccurs="0" maxOccurs="1" />
6492         <xs:element name="presenceOfRedTriangle" type="D2LogicalModel:Boolean"
        minOccurs="1" maxOccurs="1" />
6493         <xs:element name="viennaConventionCompliant" type="D2LogicalModel:Boolean"
        minOccurs="0" maxOccurs="1" />
6494         <xs:element name="distanceAttribute"
        type="D2LogicalModel:MetresAsNonNegativeInteger" minOccurs="0" maxOccurs="1" />
6495         <xs:element name="heightAttribute" type="D2LogicalModel:MetresAsFloat"
        minOccurs="0" maxOccurs="1" />
6496         <xs:element name="lengthAttribute" type="D2LogicalModel:MetresAsFloat"
        minOccurs="0" maxOccurs="1" />
6497         <xs:element name="speedAttribute" type="D2LogicalModel:KilometresPerHour"
        minOccurs="0" maxOccurs="1" />
6498         <xs:element name="weightAttribute" type="D2LogicalModel:Tonnes" minOccurs="0"
        maxOccurs="1" />
6499         <xs:element name="weightPerAxleAttribute" type="D2LogicalModel:Tonnes"
        minOccurs="0" maxOccurs="1" />
6500         <xs:element name="widthAttribute" type="D2LogicalModel:MetresAsFloat"
        minOccurs="0" maxOccurs="1" />
6501         <xs:element name="vmsSupplementaryPanel"
        type="D2LogicalModel:VmsSupplementaryPanel" minOccurs="0" />
6502         <xs:element name="vmsPictogramExtension" type="D2LogicalModel:_ExtensionType"
        minOccurs="0" />
6503     </xs:sequence>
6504 </xs:complexType>
6505 <xs:complexType name="VmsPictogramDisplayArea">
6506     <xs:sequence>
6507         <xs:element name="synchronizedSequencingWithTextPages"
        type="D2LogicalModel:Boolean" minOccurs="0" maxOccurs="1" />
6508         <xs:element name="vmsPictogram"
        type="D2LogicalModel:_VmsPictogramDisplayAreaPictogramSequencingIndexVmsPictogram"
        minOccurs="0" maxOccurs="unbounded" />
        <xs:element name="vmsPictogramDisplayAreaExtension"
        type="D2LogicalModel:_ExtensionType" minOccurs="0" />

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6509     </xs:sequence>
6510 </xs:complexType>
6511 <xs:complexType name="VmsPictogramDisplayCharacteristics">
6512     <xs:sequence>
6513         <xs:element name="pictogramLanternsPresent" type="D2LogicalModel:Boolean"
6514             minOccurs="0" maxOccurs="1" />
6515         <xs:element name="pictogramSequencingCapable" type="D2LogicalModel:Boolean"
6516             minOccurs="0" maxOccurs="1" />
6517         <xs:element name="pictogramPixelsAcross"
6518             type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
6519         <xs:element name="pictogramPixelsDown"
6520             type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
6521         <xs:element name="pictogramDisplayHeight" type="D2LogicalModel:MetresAsFloat"
6522             minOccurs="0" maxOccurs="1" />
6523         <xs:element name="pictogramDisplayWidth" type="D2LogicalModel:MetresAsFloat"
6524             minOccurs="0" maxOccurs="1" />
6525         <xs:element name="pictogramCodeListIdentifier" type="D2LogicalModel:String"
6526             minOccurs="0" maxOccurs="1" />
6527         <xs:element name="maxPictogramLuminanceLevel"
6528             type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
6529         <xs:element name="pictogramNumberOfColours"
6530             type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
6531         <xs:element name="maxNumberOfSequentialPictograms"
6532             type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
6533         <xs:element name="pictogramPositionAbsolute"
6534             type="D2LogicalModel:PositionAbsoluteEnum" minOccurs="0" maxOccurs="1" />
6535         <xs:element name="pictogramPositionX" type="D2LogicalModel:MetresAsFloat"
6536             minOccurs="0" maxOccurs="1" />
6537         <xs:element name="pictogramPositionY" type="D2LogicalModel:MetresAsFloat"
6538             minOccurs="0" maxOccurs="1" />
6539         <xs:element name="pictogramPositionRelativeToText"
6540             type="D2LogicalModel:PositionRelativeEnum" minOccurs="0" maxOccurs="1" />
6541         <xs:element name="vmsSupplementaryPanelCharacteristics"
6542             type="D2LogicalModel:VmsSupplementaryPanelCharacteristics" minOccurs="0" />
6543         <xs:element name="vmsPictogramDisplayCharacteristicsExtension"
6544             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
6545     </xs:sequence>
6546 </xs:complexType>
6547 <xs:complexType name="VmsPublication">
6548     <xs:complexContent>
6549         <xs:extension base="D2LogicalModel:PayloadPublication">
6550             <xs:sequence>
6551                 <xs:element name="headerInformation"
6552                     type="D2LogicalModel:HeaderInformation" />
6553                 <xs:element name="vmsUnit" type="D2LogicalModel:VmsUnit"
6554                     maxOccurs="unbounded" />
6555                 <xs:element name="vmsPublicationExtension"
6556                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
6557             </xs:sequence>
6558         </xs:extension>
6559     </xs:complexContent>
6560 </xs:complexType>
6561 <xs:complexType name="VmsRecord">
6562     <xs:sequence>
6563         <xs:element name="vmsDescription" type="D2LogicalModel:MultilingualString"
6564             minOccurs="0" maxOccurs="1" />
6565         <xs:element name="vmsOwner" type="D2LogicalModel:MultilingualString"
6566             minOccurs="0" maxOccurs="1" />
6567         <xs:element name="vmsPhysicalMounting"
6568             type="D2LogicalModel:PhysicalMountingEnum" minOccurs="0" maxOccurs="1" />
6569         <xs:element name="vmsType" type="D2LogicalModel:VmsTypeEnum" minOccurs="0"
6570             maxOccurs="1" />
6571         <xs:element name="vmsTypeCode" type="D2LogicalModel:String" minOccurs="0"
6572             maxOccurs="1" />
6573         <xs:element name="numberOfPictogramDisplayAreas"
6574             type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
6575         <xs:element name="dynamicallyConfigurableDisplayAreas"
6576             type="D2LogicalModel:Boolean" minOccurs="0" maxOccurs="1" />
6577         <xs:element name="vmsDisplayHeight" type="D2LogicalModel:MetresAsFloat"
6578             minOccurs="0" maxOccurs="1" />
6579         <xs:element name="vmsDisplayWidth" type="D2LogicalModel:MetresAsFloat"
6580             minOccurs="0" maxOccurs="1" />

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6553     <xs:element name="vmsHeightAboveRoadway" type="D2LogicalModel:MetresAsFloat"
6554     minOccurs="0" maxOccurs="1" />
6555     <xs:element name="vmsTextDisplayCharacteristics"
6556     type="D2LogicalModel:VmsTextDisplayCharacteristics" minOccurs="0" />
6557     <xs:element name="vmsPictogramDisplayCharacteristics"
6558     type="D2LogicalModel:_VmsRecordPictogramDisplayAreaIndexVmsPictogramDisplayChara
6559     cteristics" minOccurs="0" maxOccurs="unbounded" />
6560     <xs:element name="vmsLocation" type="D2LogicalModel:Location" minOccurs="0" />
6561     <xs:element name="vmsManagedLogicalLocation"
6562     type="D2LogicalModel:VmsManagedLogicalLocation" minOccurs="0" />
6563     <xs:element name="backgroundImageUrl" type="D2LogicalModel:UrlLink"
6564     minOccurs="0" />
6565     <xs:element name="vmsRecordExtension" type="D2LogicalModel:_ExtensionType"
6566     minOccurs="0" />
6567   </xs:sequence>
6568 </xs:complexType>
6569 <xs:complexType name="VmsSetting" abstract="true">
6570   <xs:sequence>
6571     <xs:element name="vmsSettingExtension" type="D2LogicalModel:_ExtensionType"
6572     minOccurs="0" />
6573   </xs:sequence>
6574 </xs:complexType>
6575 <xs:complexType name="VmsSupplementaryPanel">
6576   <xs:sequence>
6577     <xs:element name="supplementaryMessageDescription"
6578     type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
6579     <xs:element name="vmsSupplementaryPictogram"
6580     type="D2LogicalModel:VmsSupplementaryPictogram" minOccurs="0" />
6581     <xs:element name="vmsSupplementaryText" type="D2LogicalModel:VmsTextLine"
6582     minOccurs="0" />
6583     <xs:element name="vmsSupplementaryPanelExtension"
6584     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
6585   </xs:sequence>
6586 </xs:complexType>
6587 <xs:complexType name="VmsSupplementaryPanelCharacteristics">
6588   <xs:sequence>
6589     <xs:element name="supplementaryPictogramCodeListIdentifier"
6590     type="D2LogicalModel:String" minOccurs="0" maxOccurs="1" />
6591     <xs:element name="supplementaryPanelPixelsAcross"
6592     type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
6593     <xs:element name="supplementaryPanelPixelsDown"
6594     type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
6595     <xs:element name="supplementaryPanelDisplayHeight"
6596     type="D2LogicalModel:MetresAsFloat" minOccurs="0" maxOccurs="1" />
6597     <xs:element name="supplementaryPanelDisplayWidth"
6598     type="D2LogicalModel:MetresAsFloat" minOccurs="0" maxOccurs="1" />
6599     <xs:element name="supplementaryPanelPositionX"
6600     type="D2LogicalModel:MetresAsFloat" minOccurs="0" maxOccurs="1" />
6601     <xs:element name="supplementaryPanelPositionY"
6602     type="D2LogicalModel:MetresAsFloat" minOccurs="0" maxOccurs="1" />
6603     <xs:element name="relativePositionToPictogramArea"
6604     type="D2LogicalModel:PositionRelativeEnum" minOccurs="0" maxOccurs="1" />
6605     <xs:element name="vmsSupplementaryPanelCharacteristicsExtension"
6606     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
6607   </xs:sequence>
6608 </xs:complexType>
6609 <xs:complexType name="VmsSupplementaryPictogram">
6610   <xs:sequence>
6611     <xs:element name="supplementaryPictogramDescription"
6612     type="D2LogicalModel:VmsDatexSupplementalPictogramEnum" minOccurs="0"
6613     maxOccurs="1" />
6614     <xs:element name="supplementaryPictogramCode" type="D2LogicalModel:String"
6615     minOccurs="0" maxOccurs="1" />
6616     <xs:element name="supplementaryPictogramUrl" type="D2LogicalModel:Url"
6617     minOccurs="0" maxOccurs="1" />
6618     <xs:element name="additionalSupplementaryPictogramDescription"
6619     type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1" />
6620     <xs:element name="pictogramFlashing" type="D2LogicalModel:Boolean"
6621     minOccurs="0" maxOccurs="1" />
6622     <xs:element name="vmsSupplementaryPictogramExtension"
6623     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
6624   </xs:sequence>

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6597 </xs:complexType>
6598 <xs:complexType name="VmsTablePublication">
6599   <xs:complexContent>
6600     <xs:extension base="D2LogicalModel:PayloadPublication">
6601       <xs:sequence>
6602         <xs:element name="headerInformation"
6603           type="D2LogicalModel:HeaderInformation" />
6604         <xs:element name="vmsUnitTable" type="D2LogicalModel:VmsUnitTable"
6605           maxOccurs="unbounded" />
6606         <xs:element name="vmsTablePublicationExtension"
6607           type="D2LogicalModel:_ExtensionType" minOccurs="0" />
6608       </xs:sequence>
6609     </xs:extension>
6610   </xs:complexContent>
6611 </xs:complexType>
6612 <xs:complexType name="VmsText">
6613   <xs:sequence>
6614     <xs:element name="vmsLegendCode" type="D2LogicalModel:String" minOccurs="0"
6615       maxOccurs="1" />
6616     <xs:element name="vmsTextImageUrl" type="D2LogicalModel:Url" minOccurs="0"
6617       maxOccurs="1" />
6618     <xs:element name="vmsTextLine"
6619       type="D2LogicalModel:_VmsTextLineIndexVmsTextLine" minOccurs="0"
6620       maxOccurs="unbounded" />
6621     <xs:element name="vmsTextExtension" type="D2LogicalModel:_ExtensionType"
6622       minOccurs="0" />
6623   </xs:sequence>
6624 </xs:complexType>
6625 <xs:complexType name="VmsTextDisplayCharacteristics">
6626   <xs:sequence>
6627     <xs:element name="textLanternsPresent" type="D2LogicalModel:Boolean"
6628       minOccurs="0" maxOccurs="1" />
6629     <xs:element name="textPageSequencingCapable" type="D2LogicalModel:Boolean"
6630       minOccurs="0" maxOccurs="1" />
6631     <xs:element name="textPixelsAcross" type="D2LogicalModel:NonNegativeInteger"
6632       minOccurs="0" maxOccurs="1" />
6633     <xs:element name="textPixelsDown" type="D2LogicalModel:NonNegativeInteger"
6634       minOccurs="0" maxOccurs="1" />
6635     <xs:element name="textDisplayHeight" type="D2LogicalModel:MetresAsFloat"
6636       minOccurs="0" maxOccurs="1" />
6637     <xs:element name="textDisplayWidth" type="D2LogicalModel:MetresAsFloat"
6638       minOccurs="0" maxOccurs="1" />
6639     <xs:element name="maxNumberOfCharacters"
6640       type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
6641     <xs:element name="maxNumberOfRows" type="D2LogicalModel:NonNegativeInteger"
6642       minOccurs="0" maxOccurs="1" />
6643     <xs:element name="legendCodeListIdentifier" type="D2LogicalModel:String"
6644       minOccurs="0" maxOccurs="1" />
6645     <xs:element name="maxFontHeight" type="D2LogicalModel:NonNegativeInteger"
6646       minOccurs="0" maxOccurs="1" />
6647     <xs:element name="minFontHeight" type="D2LogicalModel:NonNegativeInteger"
6648       minOccurs="0" maxOccurs="1" />
6649     <xs:element name="maxFontWidth" type="D2LogicalModel:NonNegativeInteger"
6650       minOccurs="0" maxOccurs="1" />
6651     <xs:element name="minFontWidth" type="D2LogicalModel:NonNegativeInteger"
6652       minOccurs="0" maxOccurs="1" />
6653     <xs:element name="maxFontSpacing" type="D2LogicalModel:NonNegativeInteger"
6654       minOccurs="0" maxOccurs="1" />
6655     <xs:element name="minFontSpacing" type="D2LogicalModel:NonNegativeInteger"
6656       minOccurs="0" maxOccurs="1" />
6657     <xs:element name="maxTextLuminanceLevel"
6658       type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
6659     <xs:element name="maxNumberOfSequentialPages"
6660       type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1" />
6661     <xs:element name="textPositionAbsolute"
6662       type="D2LogicalModel:PositionAbsoluteEnum" minOccurs="0" maxOccurs="1" />
6663     <xs:element name="textPositionX" type="D2LogicalModel:MetresAsFloat"
6664       minOccurs="0" maxOccurs="1" />
6665     <xs:element name="textPositionY" type="D2LogicalModel:MetresAsFloat"
6666       minOccurs="0" maxOccurs="1" />
6667     <xs:element name="vmsTextDisplayCharacteristicsExtension"
6668       type="D2LogicalModel:_ExtensionType" minOccurs="0" />

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6640     </xs:sequence>
6641 </xs:complexType>
6642 <xs:complexType name="VmsTextLine">
6643     <xs:sequence>
6644         <xs:element name="vmsTextLine" type="D2LogicalModel:String" minOccurs="1"
maxOccurs="1" />
6645         <xs:element name="vmsTextLineLanguage" type="D2LogicalModel:Language"
minOccurs="0" maxOccurs="1" />
6646         <xs:element name="vmsTextLineColour" type="D2LogicalModel:ColourEnum"
minOccurs="0" maxOccurs="1" />
6647         <xs:element name="vmsTextLineFlashing" type="D2LogicalModel:Boolean"
minOccurs="0" maxOccurs="1" />
6648         <xs:element name="vmsTextLineHtml" type="D2LogicalModel:String" minOccurs="0"
maxOccurs="1" />
6649         <xs:element name="vmsTextLineExtension" type="D2LogicalModel:_ExtensionType"
minOccurs="0" />
6650     </xs:sequence>
6651 </xs:complexType>
6652 <xs:simpleType name="VmsTypeEnum">
6653     <xs:restriction base="xs:string">
6654         <xs:enumeration value="colourGraphic" />
6655         <xs:enumeration value="continuousSign" />
6656         <xs:enumeration value="monochromeGraphic" />
6657         <xs:enumeration value="matrixSign" />
6658         <xs:enumeration value="other" />
6659     </xs:restriction>
6660 </xs:simpleType>
6661 <xs:complexType name="VmsUnit">
6662     <xs:complexContent>
6663         <xs:extension base="D2LogicalModel:VmsSetting">
6664             <xs:sequence>
6665                 <xs:element name="vmsUnitTableReference"
type="D2LogicalModel:_VmsUnitTableVersionedReference" minOccurs="1"
maxOccurs="1" />
6666                 <xs:element name="vmsUnitReference"
type="D2LogicalModel:_VmsUnitRecordVersionedReference" minOccurs="1"
maxOccurs="1" />
6667                 <xs:element name="vms" type="D2LogicalModel:_VmsUnitVmsIndexVms"
minOccurs="0" maxOccurs="unbounded" />
6668                 <xs:element name="vmsUnitFault" type="D2LogicalModel:VmsUnitFault"
minOccurs="0" maxOccurs="unbounded" />
6669                 <xs:element name="vmsUnitExtension" type="D2LogicalModel:_ExtensionType"
minOccurs="0" />
6670             </xs:sequence>
6671         </xs:extension>
6672     </xs:complexContent>
6673 </xs:complexType>
6674 <xs:complexType name="VmsUnitFault">
6675     <xs:complexContent>
6676         <xs:extension base="D2LogicalModel:Fault">
6677             <xs:sequence>
6678                 <xs:element name="vmsUnitFault" type="D2LogicalModel:VmsFaultEnum"
minOccurs="1" maxOccurs="1" />
6679                 <xs:element name="vmsUnitFaultExtension"
type="D2LogicalModel:_ExtensionType" minOccurs="0" />
6680             </xs:sequence>
6681         </xs:extension>
6682     </xs:complexContent>
6683 </xs:complexType>
6684 <xs:complexType name="VmsUnitRecord">
6685     <xs:sequence>
6686         <xs:element name="numberOfVms" type="D2LogicalModel:NonNegativeInteger"
minOccurs="0" maxOccurs="1" />
6687         <xs:element name="vmsUnitIdentifier" type="D2LogicalModel:String"
minOccurs="0" maxOccurs="1" />
6688         <xs:element name="vmsUnitIPAddress" type="D2LogicalModel:String" minOccurs="0"
maxOccurs="1" />
6689         <xs:element name="vmsUnitElectronicAddress" type="D2LogicalModel:String"
minOccurs="0" maxOccurs="1" />
6690         <xs:element name="vmsRecord"
type="D2LogicalModel:_VmsUnitRecordVmsIndexVmsRecord" minOccurs="0"
maxOccurs="unbounded" />

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6691     <xs:element name="vmsUnitRecordExtension" type="D2LogicalModel:_ExtensionType"
6692         minOccurs="0" />
6693 </xs:sequence>
6694 <xs:attribute name="id" type="xs:string" use="required" />
6695 <xs:attribute name="version" type="xs:string" use="required" />
6696 </xs:complexType>
6697 <xs:complexType name="VmsUnitTable">
6698     <xs:sequence>
6699         <xs:element name="vmsUnitTableIdentification" type="D2LogicalModel:String"
6700             minOccurs="0" maxOccurs="1" />
6701         <xs:element name="vmsUnitRecord" type="D2LogicalModel:VmsUnitRecord"
6702             maxOccurs="unbounded" />
6703         <xs:element name="vmsUnitTableExtension" type="D2LogicalModel:_ExtensionType"
6704             minOccurs="0" />
6705     </xs:sequence>
6706     <xs:attribute name="id" type="xs:string" use="required" />
6707     <xs:attribute name="version" type="xs:string" use="required" />
6708 </xs:complexType>
6709 <xs:simpleType name="Volt">
6710     <xs:restriction base="D2LogicalModel:Float" />
6711 </xs:simpleType>
6712 <xs:complexType name="WeatherData" abstract="true">
6713     <xs:complexContent>
6714         <xs:extension base="D2LogicalModel:BasicData">
6715             <xs:sequence>
6716                 <xs:element name="weatherDataExtension"
6717                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
6718             </xs:sequence>
6719         </xs:extension>
6720     </xs:complexContent>
6721 </xs:complexType>
6722 <xs:complexType name="WeatherRelatedRoadConditions">
6723     <xs:complexContent>
6724         <xs:extension base="D2LogicalModel:RoadConditions">
6725             <xs:sequence>
6726                 <xs:element name="weatherRelatedRoadConditionType"
6727                     type="D2LogicalModel:WeatherRelatedRoadConditionTypeEnum" minOccurs="1"
6728                     maxOccurs="unbounded" />
6729                 <xs:element name="roadSurfaceConditionMeasurements"
6730                     type="D2LogicalModel:RoadSurfaceConditionMeasurements" minOccurs="0" />
6731                 <xs:element name="weatherRelatedRoadConditionsExtension"
6732                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
6733             </xs:sequence>
6734         </xs:extension>
6735     </xs:complexContent>
6736 </xs:complexType>
6737 <xs:simpleType name="WeatherRelatedRoadConditionTypeEnum">
6738     <xs:restriction base="xs:string">
6739         <xs:enumeration value="blackIce" />
6740         <xs:enumeration value="deepSnow" />
6741         <xs:enumeration value="dry" />
6742         <xs:enumeration value="freezingOfWetRoads" />
6743         <xs:enumeration value="freezingPavements" />
6744         <xs:enumeration value="freezingRain" />
6745         <xs:enumeration value="freshSnow" />
6746         <xs:enumeration value="ice" />
6747         <xs:enumeration value="iceBuildUp" />
6748         <xs:enumeration value="iceWithWheelBarTracks" />
6749         <xs:enumeration value="icyPatches" />
6750         <xs:enumeration value="looseSnow" />
6751         <xs:enumeration value="normalWinterConditionsForPedestrians" />
6752         <xs:enumeration value="packedSnow" />
6753         <xs:enumeration value="roadSurfaceMelting" />
6754         <xs:enumeration value="slipperyRoad" />
6755         <xs:enumeration value="slushOnRoad" />
6756         <xs:enumeration value="slushStrings" />
6757         <xs:enumeration value="snowDrifts" />
6758         <xs:enumeration value="snowOnPavement" />
6759         <xs:enumeration value="snowOnTheRoad" />
6760         <xs:enumeration value="surfaceWater" />
6761         <xs:enumeration value="wet" />
6762         <xs:enumeration value="wetAndIcyRoad" />

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6754         <xs:enumeration value="wetIcyPavement" />
6755         <xs:enumeration value="other" />
6756     </xs:restriction>
6757 </xs:simpleType>
6758 <xs:simpleType name="WeekOfMonthEnum">
6759     <xs:restriction base="xs:string">
6760         <xs:enumeration value="firstWeekOfMonth" />
6761         <xs:enumeration value="secondWeekOfMonth" />
6762         <xs:enumeration value="thirdWeekOfMonth" />
6763         <xs:enumeration value="fourthWeekOfMonth" />
6764         <xs:enumeration value="fifthWeekOfMonth" />
6765     </xs:restriction>
6766 </xs:simpleType>
6767 <xs:complexType name="WidthCharacteristic">
6768     <xs:sequence>
6769         <xs:element name="comparisonOperator"
6770             type="D2LogicalModel:ComparisonOperatorEnum" minOccurs="1" maxOccurs="1" />
6771         <xs:element name="vehicleWidth" type="D2LogicalModel:MetresAsFloat"
6772             minOccurs="1" maxOccurs="1" />
6773         <xs:element name="widthCharacteristicExtension"
6774             type="D2LogicalModel:_ExtensionType" minOccurs="0" />
6775     </xs:sequence>
6776 </xs:complexType>
6777 <xs:complexType name="Wind">
6778     <xs:sequence>
6779         <xs:element name="windMeasurementHeight"
6780             type="D2LogicalModel:MetresAsNonNegativeInteger" minOccurs="0" maxOccurs="1" />
6781         <xs:element name="windSpeed" type="D2LogicalModel:SpeedValue" minOccurs="0" />
6782         <xs:element name="maximumWindSpeed" type="D2LogicalModel:SpeedValue"
6783             minOccurs="0" />
6784         <xs:element name="windDirectionBearing"
6785             type="D2LogicalModel:DirectionBearingValue" minOccurs="0" />
6786         <xs:element name="windDirectionCompass"
6787             type="D2LogicalModel:DirectionCompassValue" minOccurs="0" />
6788         <xs:element name="windExtension" type="D2LogicalModel:_ExtensionType"
6789             minOccurs="0" />
6790     </xs:sequence>
6791 </xs:complexType>
6792 <xs:complexType name="WindInformation">
6793     <xs:complexContent>
6794         <xs:extension base="D2LogicalModel:WeatherData">
6795             <xs:sequence>
6796                 <xs:element name="wind" type="D2LogicalModel:Wind" />
6797                 <xs:element name="windInformationExtension"
6798                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
6799             </xs:sequence>
6800         </xs:extension>
6801     </xs:complexContent>
6802 </xs:complexType>
6803 <xs:complexType name="WinterDrivingManagement">
6804     <xs:complexContent>
6805         <xs:extension base="D2LogicalModel:NetworkManagement">
6806             <xs:sequence>
6807                 <xs:element name="winterEquipmentManagementType"
6808                     type="D2LogicalModel:WinterEquipmentManagementTypeEnum" minOccurs="1"
6809                     maxOccurs="1" />
6810                 <xs:element name="winterDrivingManagementExtension"
6811                     type="D2LogicalModel:_ExtensionType" minOccurs="0" />
6812             </xs:sequence>
6813         </xs:extension>
6814     </xs:complexContent>
6815 </xs:complexType>
6816 <xs:simpleType name="WinterEquipmentManagementTypeEnum">
6817     <xs:restriction base="xs:string">
6818         <xs:enumeration value="doNoUseStudTyres" />
6819         <xs:enumeration value="useSnowChains" />
6820         <xs:enumeration value="useSnowChainsOrTyres" />
6821         <xs:enumeration value="useSnowTyres" />
6822         <xs:enumeration value="winterEquipmentOnBoardRequired" />
6823         <xs:enumeration value="other" />
6824     </xs:restriction>
6825 </xs:simpleType>

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