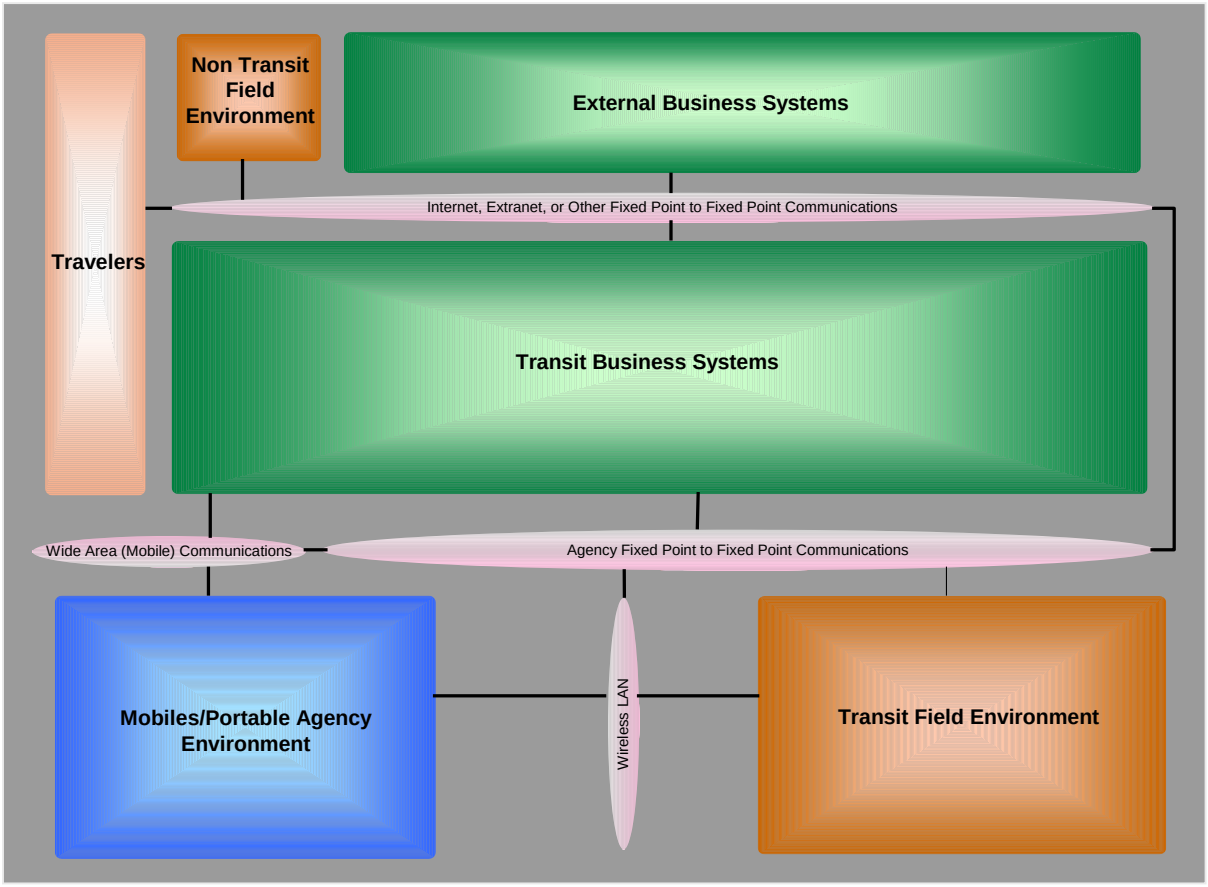
APTA TCIP-S-001 4.1.1,
APTA Standard for
Transit Communications Interface Profiles

Version 4.1.1

Volume III
TCIP XML Schema



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Contents

ANNEX E **1**

TCIP XML SCHEMA **1**

Annex E
TCIP XML Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Developed by Ayers Electronic Systems, LLC under contract to ARINC, and the American Public
Transportation Association (APTA) -->
<!-- Schema production output by APTA Data Definition and Message Editor (ADDAME)  -->
<!-- RunStartTime = 1:14:20 PM -->
<xs:schema xmlns="http://www.TCIP-Final-4-1-1" xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:atis="http://www.atis-partial-03-00-74" xmlns:tmdd="http://www.tmdd-partial-00-00-00"
xmlns:im="http://www.im-partial-03-00-38" xmlns:itis="http://www.itis-final-3-0-0" xmlns:lrms="http://www.lrms-
final-09-07" xmlns:local="http://www.tcip-4-1-1-local" targetNamespace="http://www.TCIP-Final-4-1-1"
elementFormDefault="unqualified" attributeFormDefault="unqualified" version="Final-4-1-1">
    <xs:import namespace="http://www.atis-partial-03-00-74" schemaLocation="atis_partial_03_00_74.xsd"/>
    <xs:import namespace="http://www.tmdd-partial-00-00-00" schemaLocation="tmdd_partial_0_0_0.xsd"/>
    <xs:import namespace="http://www.im-partial-03-00-38" schemaLocation="im_partial_03_00_38.xsd"/>
    <xs:import namespace="http://www.itis-final-3-0-0" schemaLocation="itis_final_3_0_0.xsd"/>
    <xs:import namespace="http://www.lrms-final-09-07" schemaLocation="lrms_final_09_07.xsd"/>
    <xs:import namespace="http://www.tcip-4-1-1-local" schemaLocation="tcip_4_1_1_local.xsd"/>
    <!-- Define the TCIP message attributes -->
    <xs:attributeGroup name="tcipMsgAttributes" id="tcip.msgAG">
        <xs:annotation>
            <xs:documentation>Every tcip message instance whether used in a file transfer or in a dialog must
contain these attributes, except for thosethat are explicitly exempted below for bandwidth conservation
reasons.</xs:documentation>
        </xs:annotation>
        <xs:attribute name="created" type="xs:dateTime" use="required"/>
        <xs:attribute name="schVersion" type="xs:string" use="optional"/>
        <xs:attribute name="sourceapp" type="xs:string" use="required"/>
        <xs:attribute name="sourceip" type="xs:string" use="optional"/>
        <xs:attribute name="sourceport" type="xs:integer" use="optional"/>
        <xs:attribute name="noNameSpaceSchemaLocation" type="xs:anyURI" use="optional"/>
        <xs:attribute name="activation" type="xs:dateTime" use="optional"/>
        <xs:attribute name="deactivation" type="xs:dateTime" use="optional"/>
    </xs:attributeGroup>
    <!-- begin definition of TCIP messages, frames, and data elements -->
    <!-- Message SchCommandScheduleChangeResponse-->
    <xs:element name="schCommandScheduleChangeResponse"
type="SchCommandScheduleChangeResponse"/>
    <xs:complexType name="SchCommandScheduleChangeResponse">
        <xs:sequence>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="commandID" type="CPT-CommandID"/>
            <xs:element name="issuedTime" type="CPT-DateTime"/>
            <xs:element name="changeAccepted" type="CPT-Boolean"/>
            <xs:element name="reason" type="CPT-Footnote" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Message SchCommandScheduleChange-->
    <xs:element name="schCommandScheduleChange" type="SchCommandScheduleChange"/>
    <xs:complexType name="SchCommandScheduleChange">
```

```
<xs:sequence>
    <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
    <xs:element name="commandID" type="CPT-CommandID"/>
    <xs:element name="reason" type="CPT-Footnote"/>
    <xs:element name="issuedTime" type="CPT-DateTime"/>
    <xs:element name="MetaData" type="CPTRowMetaData"/>
    <xs:element name="addedBlocks" minOccurs="0">
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            <xs:sequence minOccurs="1" maxOccurs="500">
                <xs:element name="addedBlock" type="SCHBlockScheduleEntry"/>
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        </xs:complexType>
    </xs:element>
    <xs:element name="addedTrips" minOccurs="0">
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        </xs:complexType>
    </xs:element>
    <xs:element name="deletedTrips" minOccurs="0">
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        </xs:complexType>
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    <xs:element name="addedPatterns" minOccurs="0">
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</xs:complexType>
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<xs:complexType name="PiGateBayAssignmentList">
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    <xs:element name="subscriptionHeader" type="CPTSubscriptionHeader"/>
    <xs:element name="stopppoints">
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  </xs:sequence>
</xs:complexType>
<!-- Message PiGateBayAssignmentListSub-->
<xs:element name="piGateBayAssignmentListSub" type="PiGateBayAssignmentListSub"/>
<xs:complexType name="PiGateBayAssignmentListSub">
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    <xs:element name="subscriptionHeader" type="CPTSubscriptionHeader"/>
    <xs:element name="stopppoints">
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        </xs:complexType>
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  </xs:sequence>
</xs:complexType>
<!-- Message SchEventChangeFile-->
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<!-- Message PiGTFSData-->
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        <xs:element name="feedInfo" minOccurs="0">
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</xs:complexType>
<!-- Message PiGTFSDataSub-->
<xs:element name="piGTFSDataSub" type="PiGTFSDataSub"/>
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    <xs:sequence>
        <xs:element name="header" type="CPTSubscriptionHeader"/>
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        <xs:element name="include-agencies" minOccurs="0">
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            </xs:complexType>
        </xs:element>
        <xs:element name="include-stoppoints" minOccurs="0">
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<xs:complexType name="CcReportTrainTerminationAck">
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  <xs:attributeGroup ref="tcipMsgAttributes"/>
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<!-- Message CcReportTrainInitializationAck-->
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<xs:complexType name="CcReportTrainInitializationAck">
  <xs:sequence>
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  <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcReportTrainTermination-->
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<xs:complexType name="CcReportTrainTermination">
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    <xs:element name="reportID" type="CPT-GenericCounter"/>
    <xs:element name="operator" type="CPTOperatorIden" minOccurs="0"/>
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        </xs:complexType>
    </xs:element>
    <xs:element name="consistcars" minOccurs="0">
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            </xs:sequence>
        </xs:complexType>
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  <xs:attributeGroup ref="tcipMsgAttributes"/>
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        <xs:element name="reportID" type="CPT-GenericCounter"/>
        <xs:element name="operator" type="CPTOperatorIden" minOccurs="0"/>
        <xs:element name="crewMembers" minOccurs="0">
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            </xs:complexType>
        </xs:element>
        <xs:element name="location" type="lrms:GeoLocation" minOccurs="0"/>
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<xs:complexType name="CcReportTrainPassageAck">
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    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcReportTrainPassage-->
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<xs:complexType name="CcReportTrainPassage">
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        <xs:element name="timeBy" type="CPT-DateTime"/>
        <xs:element name="detectorID" type="CCTrainDetectorIden"/>
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        <xs:element name="trainID" type="CPTTrainIden" minOccurs="0"/>
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</xs:complexType>
<!-- Message CcJ1939FaultCodeListSub-->
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<xs:complexType name="CcJ1939FaultCodeListSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcJ1939FaultCodeList-->
<xs:element name="ccJ1939FaultCodeList" type="CcJ1939FaultCodeList"/>
<xs:complexType name="CcJ1939FaultCodeList">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="faults">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="200">
                    <xs:element name="fault" type="CCJ1939FaultCode"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="protectLamp" type="CC-J1939LampStatus" minOccurs="0"/>
        <xs:element name="redLamp" type="CC-J1939LampStatus" minOccurs="0"/>
        <xs:element name="amberLamp" type="CC-J1939LampStatus" minOccurs="0"/>
        <xs:element name="malLamp" type="CC-J1939LampStatus" minOccurs="0"/>
        <xs:element name="flashProtectLamp" type="CC-J1939FlashLampStatus" minOccurs="0"/>
        <xs:element name="flashRedLamp" type="CC-J1939FlashLampStatus" minOccurs="0"/>
        <xs:element name="flashAmberLamp" type="CC-J1939FlashLampStatus" minOccurs="0"/>
        <xs:element name="flashMalLamp" type="CC-J1939FlashLampStatus" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiGTFSFile-->
<xs:element name="piGTFSFile" type="PiGTFSFile"/>
<xs:complexType name="PiGTFSFile">
    <xs:sequence>
        <xs:element name="fileHeader" type="CPTLoadFileHeader"/>
        <xs:element name="agencies">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="5">
                    <xs:element name="agencie" type="PIGTFSAgency"/>
                </xs:sequence>
            </xs:complexType>
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</xs:element>
<xs:element name="stops">
    <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="25000">
            <xs:element name="stop" type="PIGTFSStops"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="routes">
    <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="100">
            <xs:element name="route" type="PIGTFSRoutes"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="trips">
    <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="1000">
            <xs:element name="trip" type="PIGTFSTrips"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="stopTimes">
    <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="500">
            <xs:element name="stopTime" type="PIGTFSStopTimes"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="calendar">
    <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="400">
            <xs:element name="calendar-item" type="PIGTFSCalendar"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="calanderDates">
    <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="400">
            <xs:element name="calanderDate" type="PIGTFSCalendarDates"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="fareAttributes" minOccurs="0">
    <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="1000">
            <xs:element name="fareAttribute" type="PIGTFSFareAttributes"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="fareRules" minOccurs="0">
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            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="fareRule" type="PIGTFSFareRules"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="shapes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="200">
                    <xs:element name="shape" type="PIGTFSShapes"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="frequencies" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="200">
                    <xs:element name="frequencie" type="PIGTFSFrequencies"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="transfers" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="transfer" type="PIGTFSTransfers"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="feedInfo" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10">
                    <xs:element name="feedInfo-item" type="PIGTFSFeedInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcLR-->
<xs:element name="ccLR" type="CcLR"/>
<xs:complexType name="CcLR">
    <xs:sequence>
        <xs:element name="rid" type="CPT-RequestIdentifier"/>
        <xs:element name="vid" type="CPT-VehicleID" minOccurs="0"/>
        <xs:element name="vag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="vin" type="CPT-VIN" minOccurs="0"/>
        <xs:element name="vnm" type="CPT-VehicleName" minOccurs="0"/>
        <xs:element name="vds" type="CPT-VehicleDesignator" minOccurs="0"/>
        <xs:element name="vad" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="sin" type="CC-RouteAdherenceState" minOccurs="0"/>
        <xs:element name="tri" type="SCH-TripID" minOccurs="0"/>
        <xs:element name="tra" type="CPT-AgencyID" minOccurs="0"/>
```

```
<xs:element name="trd" type="SCH-TripDesignator" minOccurs="0"/>
<xs:element name="trg" type="CPT-AgencyDesignator" minOccurs="0"/>
<xs:element name="tpi" type="SCH-TimepointID" minOccurs="0"/>
<xs:element name="tpa" type="CPT-AgencyID" minOccurs="0"/>
<xs:element name="tpn" type="SCH-TimepointName" minOccurs="0"/>
<xs:element name="tpd" type="SCH-TimepointDesignator" minOccurs="0"/>
<xs:element name="tpg" type="CPT-AgencyDesignator" minOccurs="0"/>
<xs:element name="dtr" type="CPT-DateTime" minOccurs="0"/>
<xs:element name="lat" type="lrms:Latitude" minOccurs="0"/>
<xs:element name="lon" type="lrms:Longitude" minOccurs="0"/>
<xs:element name="dir" type="CPT-GenericCounter" minOccurs="0"/>
<xs:element name="spd" type="OB-J1587-VelocityVectorSpeed" minOccurs="0"/>
<xs:element name="qli" type="SP-QualityLevel" minOccurs="0"/>
<xs:element name="q90" type="lrms:Distance" minOccurs="0"/>
<xs:element name="q95" type="lrms:Distance" minOccurs="0"/>
<xs:element name="q99" type="lrms:Distance" minOccurs="0"/>
<xs:element name="q999" type="lrms:Distance" minOccurs="0"/>
<xs:element name="onb" type="OB-J1587-PassengerCounterPatronCount" minOccurs="0"/>
<xs:element name="odo" type="CPT-GenericCounter" minOccurs="0"/>
<xs:element name="mfr" type="CC-ManufacturerData" minOccurs="0"/>
<xs:element name="tds" type="lrms:Distance" minOccurs="0"/>
<xs:element name="rti" type="SCH-RouteID" minOccurs="0"/>
<xs:element name="rta" type="CPT-AgencyID" minOccurs="0"/>
<xs:element name="rtd" type="SCH-RouteDesignator" minOccurs="0"/>
<xs:element name="rtn" type="SCH-RouteName" minOccurs="0"/>
<xs:element name="rtg" type="CPT-AgencyDesignator" minOccurs="0"/>
<xs:element name="bli" type="SCH-BlockID" minOccurs="0"/>
<xs:element name="bla" type="CPT-AgencyID" minOccurs="0"/>
<xs:element name="bld" type="SCH-BlockDesignator" minOccurs="0"/>
<xs:element name="bln" type="SCH-BlockName" minOccurs="0"/>
<xs:element name="blg" type="CPT-AgencyDesignator" minOccurs="0"/>
<xs:element name="opi" type="CPT-OperatorID" minOccurs="0"/>
<xs:element name="opa" type="CPT-AgencyID" minOccurs="0"/>
<xs:element name="opd" type="CPT-OperatorDesignator" minOccurs="0"/>
<xs:element name="ope" type="CPT-EmployeeID" minOccurs="0"/>
<xs:element name="opg" type="CPT-AgencyDesignator" minOccurs="0"/>
<xs:element name="rui" type="SCH-RunID" minOccurs="0"/>
<xs:element name="rua" type="CPT-AgencyID" minOccurs="0"/>
<xs:element name="rud" type="SCH-RunDesignator" minOccurs="0"/>
<xs:element name="rug" type="CPT-AgencyDesignator" minOccurs="0"/>
<xs:element name="dsc" type="CC-DestinationMessageID" minOccurs="0"/>
<xs:element name="ec1" type="CC-EmergencyCode" minOccurs="0"/>
<xs:element name="ec2" type="CC-EmergencyCode" minOccurs="0"/>
<xs:element name="ec3" type="CC-EmergencyCode" minOccurs="0"/>
<xs:element name="tid" type="CPT-TrainID" minOccurs="0"/>
<xs:element name="tag" type="CPT-AgencyID" minOccurs="0"/>
<xs:element name="tpt" type="CPT-DateTime" minOccurs="0"/>
<xs:element name="npi" type="SCH-TimepointID" minOccurs="0"/>
<xs:element name="npa" type="CPT-AgencyID" minOccurs="0"/>
<xs:element name="npn" type="SCH-TimepointName" minOccurs="0"/>
<xs:element name="npd" type="SCH-TimepointDesignator" minOccurs="0"/>
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        <xs:element name="npg" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="npt" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="sch" type="PI-OffSchedule" minOccurs="0"/>
        <xs:element name="rtz" type="SCH-RouteDirectionName" minOccurs="0"/>
        <xs:element name="localCcLR" type="local:CcLR" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Message CcLRSub-->
<xs:element name="ccLRSub" type="CcLRSub"/>
<xs:complexType name="CcLRSub">
    <xs:sequence>
        <xs:element name="header" type="CPTSubscriptionHeader"/>
    </xs:sequence>
</xs:complexType>
<!-- Message PiPatternService-->
<xs:element name="piPatternService" type="PiPatternService"/>
<xs:complexType name="PiPatternService">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="patterns">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="250">
                    <xs:element name="pattern" type="SCHPatternIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="entries">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="250">
                    <xs:element name="entrie" type="PIPatternServiceEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiPatternServiceSub-->
<xs:element name="piPatternServiceSub" type="PiPatternServiceSub"/>
<xs:complexType name="PiPatternServiceSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="patterns">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="250">
                    <xs:element name="pattern" type="SCHPatternIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
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    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiStoppointPatterns-->
<xs:element name="piStoppointPatterns" type="PiStoppointPatterns"/>
<xs:complexType name="PiStoppointPatterns">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="stoppoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stoppoint" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="routeEntries" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="80000">
                    <xs:element name="routeEntrie" type="PIStopPatternRouteEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiStoppointPatternsSub-->
<xs:element name="piStoppointPatternsSub" type="PiStoppointPatternsSub"/>
<xs:complexType name="PiStoppointPatternsSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="stoppoints">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stoppoint" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="timepointsOnly" type="CPT-Boolean"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiDirections-->
<xs:element name="piDirections" type="PiDirections"/>
<xs:complexType name="PiDirections">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="from-geoloc" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="from-indoor" type="SPInteriorLocation" minOccurs="0"/>
        <xs:element name="from-lm-name" type="PI-LandmarkName" minOccurs="0"/>
```

```
        <xs:element name="from-lm-id" type="PI-LandmarkID" minOccurs="0"/>
        <xs:element name="from-lm-nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="to-geoloc" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="to-indoor" type="SPInteriorLocation" minOccurs="0"/>
        <xs:element name="to-lm-name" type="PI-LandmarkName" minOccurs="0"/>
        <xs:element name="to-lm-id" type="PI-LandmarkID" minOccurs="0"/>
        <xs:element name="to-IM-NameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="int-directions" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="int-direction" type="SPIntDirection"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="atis-directions" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="atis-direction" type="atis:ManeuverInstruction"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="text-directions" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="text-directionsLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="itinerary" type="atis:Route" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiDirectionsSub-->
<xs:element name="piDirectionsSub" type="PiDirectionsSub"/>
<xs:complexType name="PiDirectionsSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="from-geoloc" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="from-indoor" type="SPInteriorLocation" minOccurs="0"/>
        <xs:element name="from-lm-name" type="PI-LandmarkName" minOccurs="0"/>
        <xs:element name="from-lm-id" type="PI-LandmarkID" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcDGPSSub-->
<xs:element name="ccDGPSSub" type="CcDGPSSub"/>
<xs:complexType name="CcDGPSSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
    </xs:sequence>
</xs:complexType>
<!-- Message CcDGPS-->
<xs:element name="ccDGPS" type="CcDGPS"/>
<xs:complexType name="CcDGPS">
    <xs:sequence>
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        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="corrections">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="32">
                    <xs:element name="correction" type="OBBusDGPSDifferentialCorrection"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Message CcDGPSPush-->
<xs:element name="ccDGPSPush" type="CcDGPSPush"/>
<xs:complexType name="CcDGPSPush">
    <xs:sequence>
        <xs:element name="header" type="CPTPushHeader"/>
        <xs:element name="corrections">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="32">
                    <xs:element name="correction" type="OBBusDGPSDifferentialCorrection"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Message CcGISFile-->
<xs:element name="ccGISFile" type="CcGISFile"/>
<xs:complexType name="CcGISFile">
    <xs:sequence>
        <xs:element name="fileHeader" type="CPTLoadFileHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="boundary-box" type="SPPolygon"/>
        <xs:element name="layers" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="200">
                    <xs:element name="layer" type="SPGISLayer"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="features" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20000">
                    <xs:element name="feature" type="SPFeature"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="streets" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="street" type="lrms:StreetInfo"/>
                </xs:sequence>
            </xs:complexType>
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```
</xs:element>
<xs:element name="nodes" minOccurs="0">
    <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="10000">
            <xs:element name="node" type="lrms:NodeAttribute"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="segments" minOccurs="0">
    <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="10000">
            <xs:element name="segment" type="SPStreetSeg"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="deleted-layers" minOccurs="0">
    <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="200">
            <xs:element name="deleted-layer" type="CPT-FeatureType"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="deleted-features" minOccurs="0">
    <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="20000">
            <xs:element name="deleted-feature" type="SPFeature"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="deleted-streets" minOccurs="0">
    <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="10000">
            <xs:element name="deleted-street" type="lrms:StreetInfo"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="deleted-nodes" minOccurs="0">
    <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="100000">
            <xs:element name="deleted-node" type="lrms:NodeAttribute"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="deleted-segments" minOccurs="0">
    <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="10000">
            <xs:element name="deleted-segment" type="SPStreetSeg"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="highlights" minOccurs="0">
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```
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="highlight" type="CPTGenericIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="localCcGISFile" type="local:CcGISFile" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SpGISSub-->
<xs:element name="spGISSub" type="SpGISSub"/>
<xs:complexType name="SpGISSub">
    <xs:sequence>
        <xs:element name="header" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="version" type="CPT-FileVersion"/>
        <xs:element name="effective" type="CPT-DateTime"/>
        <xs:element name="update-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="boundary-box" type="SPPolygon"/>
        <xs:element name="requested-layers" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="200">
                    <xs:element name="requested-layer" type="CPT-FeatureType"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="include-streets" type="CPT-Boolean"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcPTVInspectionAck-->
<xs:element name="ccPTVInspectionAck" type="CcPTVInspectionAck"/>
<xs:complexType name="CcPTVInspectionAck">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="employee" type="CPTEmployeeIden"/>
        <xs:element name="time" type="CPT-DateTime"/>
        <xs:element name="ready" type="CPT-Boolean"/>
        <xs:element name="issues" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="issue" type="CC-PTVInspectionFault"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="time-acknowledged" type="CPT-DateTime"/>
        <xs:element name="ack-employeeID" type="CPT-EmployeeID"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
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```
</xs:complexType>
<!-- Message CcPTVInspection-->
<xs:element name="ccPTVInspection" type="CcPTVInspection"/>
<xs:complexType name="CcPTVInspection">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="employee" type="CPTEmployeeIden"/>
        <xs:element name="time" type="CPT-DateTime"/>
        <xs:element name="ready" type="CPT-Boolean"/>
        <xs:element name="issues" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="issue" type="CC-PTVInspectionFault"/>
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minOccurs="0"/>
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    <xs:element name="schRunScheduleList" type="SchRunScheduleList"/>
    <xs:complexType name="SchRunScheduleList">
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            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
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        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
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        <xs:element name="effective" type="CPT-DateTime"/>
        <xs:element name="update-thru" type="CPT-DateTime"/>
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        <xs:element name="boundary-box" type="SPPolygon"/>
        <xs:element name="requested-layers" minOccurs="0">
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        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
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        <xs:element name="effective" type="CPT-DateTime"/>
        <xs:element name="update-thru" type="CPT-DateTime"/>
        <xs:element name="boundary-box" type="SPPolygon"/>
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    <xs:element name="header" type="CPTPushHeader"/>
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</xs:complexType>
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        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
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    </xs:element>
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    <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
    <xs:element name="stops">
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    <xs:element name="header" type="CPTSubscriptionHeader"/>
    <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
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    <xs:element name="zones" minOccurs="0">
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            </xs:complexType>
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                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="routes" minOccurs="0">
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                </xs:sequence>
            </xs:complexType>
        </xs:element>
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                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
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<!-- Message PiAnnouncementsListSub-->
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        <xs:element name="stoppoints" minOccurs="0">
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        </xs:element>
    </xs:sequence>
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        <xs:element name="include-map" type="CPT-Boolean"/>
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        <xs:element name="include-stops" type="CPT-Boolean"/>
        <xs:element name="include-files" type="CPT-Boolean"/>
        <xs:element name="include-announcements" type="CPT-Boolean"/>
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        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
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        </xs:element>
        <xs:element name="include-map" type="CPT-Boolean"/>
        <xs:element name="include-access" type="CPT-Boolean"/>
        <xs:element name="include-stops" type="CPT-Boolean"/>
        <xs:element name="include-files" type="CPT-Boolean"/>
        <xs:element name="include-announcements" type="CPT-Boolean"/>
        <xs:element name="include-timetables" type="CPT-Boolean"/>
    </xs:sequence>
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                    <xs:element name="agency-id" type="CPT-AgencyID"/>
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            </xs:complexType>
        </xs:element>
        <xs:element name="zones" minOccurs="0">
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            </xs:complexType>
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        <xs:element name="stoppoints" minOccurs="0">
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        <xs:element name="modes" minOccurs="0">
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<!-- Message PiServiceListSub-->
<xs:element name="piServiceListSub" type="PiServiceListSub"/>
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            </xs:complexType>
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        <xs:element name="stoppoints" minOccurs="0">
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    </xs:sequence>
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        <xs:element name="routes" minOccurs="0">
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            </xs:complexType>
        </xs:element>
        <xs:element name="stoppoints" minOccurs="0">
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        <xs:element name="routes" minOccurs="0">
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        <xs:element name="stoppoints" minOccurs="0">
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                    <xs:element name="stoppoint" type="CPTStoppointIden"/>
                </xs:sequence>
```

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            </xs:complexType>
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        <xs:element name="files" minOccurs="0">
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    <xs:attributeGroup ref="tcipMsgAttributes"/>
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<!-- Message PiAgencyFiles-->
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<xs:complexType name="PiAgencyFiles">
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        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="routes" minOccurs="0">
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        <xs:element name="name-fragment" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="name-fragmentLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
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            <xs:element name="description-fragment" type="CPT-Footnote" minOccurs="0"/>
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minOccurs="0"/>
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        <xs:attributeGroup ref="tcipMsgAttributes"/>
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    <!-- Message PiAgencyFilesSub-->
    <xs:element name="piAgencyFilesSub" type="PiAgencyFilesSub"/>
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            <xs:element name="routes" minOccurs="0">
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            <xs:element name="agencies" minOccurs="0">
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            <xs:element name="description-fragment" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="description-fragmentLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
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    </xs:complexType>
    <!-- Message PiAgencyList-->
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            </xs:complexType>
        </xs:element>
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        </xs:element>
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        <xs:element name="modes" minOccurs="0">
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        </xs:element>
        <xs:element name="zones" minOccurs="0">
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        <xs:element name="include-fares" type="CPT-Boolean"/>
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        <xs:element name="include-zones" type="CPT-Boolean"/>
        <xs:element name="include-hours" type="CPT-Boolean"/>
        <xs:element name="include-area" type="CPT-Boolean"/>
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    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiAgencyListSub-->
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        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
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        </xs:element>
        <xs:element name="name-fragments" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="100">
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    <xs:element name="zones" minOccurs="0">
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    </xs:element>
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    <xs:element name="include-zones" type="CPT-Boolean"/>
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    <xs:element name="begin-time" type="CPT-DateTime"/>
    <xs:element name="end-time" type="CPT-DateTime"/>
    <xs:element name="intersections" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="100000">
                <xs:element name="intersection" type="CPTIntersectionIden"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
```

```
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ScpEventLog-->
<xs:element name="scpEventLog" type="ScpEventLog"/>
<xs:complexType name="ScpEventLog">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="begin-time" type="CPT-DateTime"/>
        <xs:element name="end-time" type="CPT-DateTime"/>
        <xs:element name="intersections" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="intersection" type="CPTIntersectionIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="event-logs">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="event-log" type="TSPEventLogEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message TspEventLogUnload-->
<xs:element name="tspEventLogUnload" type="TspEventLogUnload"/>
<xs:complexType name="TspEventLogUnload">
    <xs:sequence>
        <xs:element name="fileHeader" type="CPTUnloadFileHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="event-logs">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="event-log" type="TSPEventLogEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ScpPriorityClear-->
<xs:element name="scpPriorityClear" type="ScpPriorityClear"/>
<xs:complexType name="ScpPriorityClear">
    <xs:sequence>
        <xs:element name="requestID" type="SCP-PriorityRequestID"/>
        <xs:element name="vin" type="CPT-VIN"/>
        <xs:element name="vehicleClassType" type="SCP-VehicleClassType"/>
```

```
        <xs:element name="vehicleClassLevel" type="SCP-VehicleClassLevel"/>
        <xs:element name="serviceStrategyNumber" type="SCP-PriorityStrategyNumber"/>
        <xs:element name="intersectionID" type="TSP-TMS-IntersectionID" minOccurs="0"/>
        <xs:element name="intersectionModem" type="TSP-ModemPhoneNum" minOccurs="0"/>
        <xs:element name="intersectionDropAddr" type="TSP-DropAddr" minOccurs="0"/>
        <xs:element name="intersectionIP" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="intersectionPort" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
        <xs:element name="intersectionIdentifier" type="tmdd:Intersection-identifier" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ScpPriorityRequest-->
<xs:element name="scpPriorityRequest" type="ScpPriorityRequest"/>
<xs:complexType name="ScpPriorityRequest">
    <xs:sequence>
        <xs:element name="requestID" type="SCP-PriorityRequestID"/>
        <xs:element name="vin" type="CPT-VIN"/>
        <xs:element name="vehicleClassType" type="SCP-VehicleClassType"/>
        <xs:element name="vehicleClassLevel" type="SCP-VehicleClassLevel"/>
        <xs:element name="serviceStrategyNumber" type="SCP-PriorityStrategyNumber"/>
        <xs:element name="timeOfServiceDesired" type="SCP-TimeInterval"/>
        <xs:element name="timeOfEstimatedDeparture" type="SCP-TimeInterval"/>
        <xs:element name="intersectionID" type="TSP-TMS-IntersectionID" minOccurs="0"/>
        <xs:element name="intersectionModem" type="TSP-ModemPhoneNum" minOccurs="0"/>
        <xs:element name="intersectionDropAddr" type="TSP-DropAddr" minOccurs="0"/>
        <xs:element name="intersectionIP" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="intersectionPort" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
        <xs:element name="intersectionIdentifier" type="tmdd:Intersection-identifier" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ScpPriorityRequestAck-->
<xs:element name="scpPriorityRequestAck" type="ScpPriorityRequestAck"/>
<xs:complexType name="ScpPriorityRequestAck">
    <xs:sequence>
        <xs:element name="requestID" type="SCP-PriorityRequestID"/>
        <xs:element name="vin" type="CPT-VIN"/>
        <xs:element name="vehicleClassType" type="SCP-VehicleClassType"/>
        <xs:element name="vehicleClassLevel" type="SCP-VehicleClassLevel"/>
        <xs:element name="serviceStrategyNumber" type="SCP-PriorityStrategyNumber"/>
        <xs:element name="timeOfServiceDesired" type="SCP-TimeInterval"/>
        <xs:element name="timeOfEstimatedDeparture" type="SCP-TimeInterval"/>
        <xs:element name="intersectionID" type="TSP-TMS-IntersectionID" minOccurs="0"/>
        <xs:element name="intersectionModem" type="TSP-ModemPhoneNum" minOccurs="0"/>
        <xs:element name="intersectionDropAddr" type="TSP-DropAddr" minOccurs="0"/>
        <xs:element name="intersectionIP" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="intersectionPort" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
        <xs:element name="intersectionIdentifier" type="tmdd:Intersection-identifier" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
```

```
<!-- Message ScpPriorityUpdate-->
<xs:element name="scpPriorityUpdate" type="ScpPriorityUpdate"/>
<xs:complexType name="ScpPriorityUpdate">
    <xs:sequence>
        <xs:element name="requestID" type="SCP-PriorityRequestID"/>
        <xs:element name="vin" type="CPT-VIN"/>
        <xs:element name="vehicleClassType" type="SCP-VehicleClassType"/>
        <xs:element name="vehicleClassLevel" type="SCP-VehicleClassLevel"/>
        <xs:element name="serviceStrategyNumber" type="SCP-PriorityStrategyNumber"/>
        <xs:element name="timeOfServiceDesired" type="SCP-TimeInterval"/>
        <xs:element name="timeOfEstimatedDeparture" type="SCP-TimeInterval"/>
        <xs:element name="intersectionID" type="TSP-TMS-IntersectionID" minOccurs="0"/>
        <xs:element name="intersectionModem" type="TSP-ModemPhoneNum" minOccurs="0"/>
        <xs:element name="intersectionDropAddr" type="TSP-DropAddr" minOccurs="0"/>
        <xs:element name="intersectionIP" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="intersectionPort" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
        <xs:element name="intersectionIdentifier" type="tmdd:Intersection-identifier" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ScpPriorityUpdateAck-->
<xs:element name="scpPriorityUpdateAck" type="ScpPriorityUpdateAck"/>
<xs:complexType name="ScpPriorityUpdateAck">
    <xs:sequence>
        <xs:element name="requestID" type="SCP-PriorityRequestID"/>
        <xs:element name="vin" type="CPT-VIN"/>
        <xs:element name="vehicleClassType" type="SCP-VehicleClassType"/>
        <xs:element name="vehicleClassLevel" type="SCP-VehicleClassLevel"/>
        <xs:element name="serviceStrategyNumber" type="SCP-PriorityStrategyNumber"/>
        <xs:element name="timeOfServiceDesired" type="SCP-TimeInterval"/>
        <xs:element name="timeOfEstimatedDeparture" type="SCP-TimeInterval"/>
        <xs:element name="intersectionID" type="TSP-TMS-IntersectionID" minOccurs="0"/>
        <xs:element name="intersectionModem" type="TSP-ModemPhoneNum" minOccurs="0"/>
        <xs:element name="intersectionDropAddr" type="TSP-DropAddr" minOccurs="0"/>
        <xs:element name="intersectionIP" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="intersectionPort" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
        <xs:element name="intersectionIdentifier" type="tmdd:Intersection-identifier" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ScpStatusControl-->
<xs:element name="scpStatusControl" type="ScpStatusControl"/>
<xs:complexType name="ScpStatusControl">
    <xs:sequence>
        <xs:element name="requestID" type="SCP-PriorityRequestID"/>
        <xs:element name="vin" type="CPT-VIN"/>
        <xs:element name="vehicleClassType" type="SCP-VehicleClassType"/>
        <xs:element name="vehicleClassLevel" type="SCP-VehicleClassLevel"/>
        <xs:element name="serviceStrategyNumber" type="SCP-PriorityStrategyNumber"/>
        <xs:element name="intersectionAddress" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="intersectionID" type="TSP-TMS-IntersectionID" minOccurs="0"/>
```

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        <xs:element name="intersectionModem" type="TSP-ModemPhoneNum" minOccurs="0"/>
        <xs:element name="intersectionDropAddr" type="TSP-DropAddr" minOccurs="0"/>
        <xs:element name="intersectionIP" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="intersectionPort" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
        <xs:element name="intersectionIdentifier" type="tmdd:Intersection-identifier" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ScpStatusControlAck-->
<xs:element name="scpStatusControlAck" type="ScpStatusControlAck"/>
<xs:complexType name="ScpStatusControlAck">
    <xs:sequence>
        <xs:element name="requestID" type="SCP-PriorityRequestID"/>
        <xs:element name="vin" type="CPT-VIN"/>
        <xs:element name="vehicleClassType" type="SCP-VehicleClassType"/>
        <xs:element name="vehicleClassLevel" type="SCP-VehicleClassLevel"/>
        <xs:element name="serviceStrategyNumber" type="SCP-PriorityStrategyNumber"/>
        <xs:element name="intersectionAddress" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="intersectionID" type="TSP-TMS-IntersectionID" minOccurs="0"/>
        <xs:element name="intersectionModem" type="TSP-ModemPhoneNum" minOccurs="0"/>
        <xs:element name="intersectionDropAddr" type="TSP-DropAddr" minOccurs="0"/>
        <xs:element name="intersectionIP" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="intersectionPort" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
        <xs:element name="intersectionIdentifier" type="tmdd:Intersection-identifier" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ScpStatusBufferResponse-->
<xs:element name="scpStatusBufferResponse" type="ScpStatusBufferResponse"/>
<xs:complexType name="ScpStatusBufferResponse">
    <xs:sequence>
        <xs:element name="requestID" type="SCP-PriorityRequestID"/>
        <xs:element name="vin" type="CPT-VIN"/>
        <xs:element name="vehicleClassType" type="SCP-VehicleClassType"/>
        <xs:element name="vehicleClassLevel" type="SCP-VehicleClassLevel"/>
        <xs:element name="serviceStrategyNumber" type="SCP-PriorityStrategyNumber"/>
        <xs:element name="statusForPRG" type="SCP-StatusForPRG"/>
        <xs:element name="statusCodeForPRG" type="SCP-StatusCodeForPRG"/>
        <xs:element name="intersectionID" type="TSP-TMS-IntersectionID" minOccurs="0"/>
        <xs:element name="intersectionModem" type="TSP-ModemPhoneNum" minOccurs="0"/>
        <xs:element name="intersectionDropAddr" type="TSP-DropAddr" minOccurs="0"/>
        <xs:element name="intersectionIP" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="intersectionPort" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
        <xs:element name="intersectionIdentifier" type="tmdd:Intersection-identifier" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ScpStatusBuffer-->
<xs:element name="scpStatusBuffer" type="ScpStatusBuffer"/>
<xs:complexType name="ScpStatusBuffer">
    <xs:sequence>
```

```
        <xs:element name="requestID" type="SCP-PriorityRequestID"/>
        <xs:element name="vin" type="CPT-VIN"/>
        <xs:element name="vehicleClassType" type="SCP-VehicleClassType"/>
        <xs:element name="vehicleClassLevel" type="SCP-VehicleClassLevel"/>
        <xs:element name="serviceStrategyNumber" type="SCP-PriorityStrategyNumber"/>
        <xs:element name="statusForPRG" type="SCP-StatusForPRG"/>
        <xs:element name="statusCodeForPRG" type="SCP-StatusCodeForPRG"/>
        <xs:element name="intersectionID" type="TSP-TMS-IntersectionID" minOccurs="0"/>
        <xs:element name="intersectionModem" type="TSP-ModemPhoneNum" minOccurs="0"/>
        <xs:element name="intersectionDropAddr" type="TSP-DropAddr" minOccurs="0"/>
        <xs:element name="intersectionIP" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="intersectionPort" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
        <xs:element name="intersectionIdentifier" type="tmdd:Intersection-identifier" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ScpPriorityCancelAck-->
<xs:element name="scpPriorityCancelAck" type="ScpPriorityCancelAck"/>
<xs:complexType name="ScpPriorityCancelAck">
    <xs:sequence>
        <xs:element name="requestID" type="SCP-PriorityRequestID"/>
        <xs:element name="vin" type="CPT-VIN"/>
        <xs:element name="vehicleClassType" type="SCP-VehicleClassType"/>
        <xs:element name="vehicleClassLevel" type="SCP-VehicleClassLevel"/>
        <xs:element name="serviceStrategyNumber" type="SCP-PriorityStrategyNumber"/>
        <xs:element name="intersectionID" type="TSP-TMS-IntersectionID" minOccurs="0"/>
        <xs:element name="intersectionModem" type="TSP-ModemPhoneNum" minOccurs="0"/>
        <xs:element name="intersectionDropAddr" type="TSP-DropAddr" minOccurs="0"/>
        <xs:element name="intersectionIP" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="intersectionPort" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
        <xs:element name="intersectionIdentifier" type="tmdd:Intersection-identifier" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ScpPriorityCancel-->
<xs:element name="scpPriorityCancel" type="ScpPriorityCancel"/>
<xs:complexType name="ScpPriorityCancel">
    <xs:sequence>
        <xs:element name="requestID" type="SCP-PriorityRequestID"/>
        <xs:element name="vin" type="CPT-VIN"/>
        <xs:element name="vehicleClassType" type="SCP-VehicleClassType"/>
        <xs:element name="vehicleClassLevel" type="SCP-VehicleClassLevel"/>
        <xs:element name="serviceStrategyNumber" type="SCP-PriorityStrategyNumber"/>
        <xs:element name="intersectionID" type="TSP-TMS-IntersectionID" minOccurs="0"/>
        <xs:element name="intersectionModem" type="TSP-ModemPhoneNum" minOccurs="0"/>
        <xs:element name="intersectionDropAddr" type="TSP-DropAddr" minOccurs="0"/>
        <xs:element name="intersectionIP" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="intersectionPort" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
        <xs:element name="intersectionIdentifier" type="tmdd:Intersection-identifier" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
```

```
</xs:complexType>
<!-- Message ScpPriorityClearAck-->
<xs:element name="scpPriorityClearAck" type="ScpPriorityClearAck"/>
<xs:complexType name="ScpPriorityClearAck">
    <xs:sequence>
        <xs:element name="requestID" type="SCP-PriorityRequestID"/>
        <xs:element name="vin" type="CPT-VIN"/>
        <xs:element name="vehicleClassType" type="SCP-VehicleClassType"/>
        <xs:element name="vehicleClassLevel" type="SCP-VehicleClassLevel"/>
        <xs:element name="serviceStrategyNumber" type="SCP-PriorityStrategyNumber"/>
        <xs:element name="intersectionID" type="TSP-TMS-IntersectionID" minOccurs="0"/>
        <xs:element name="intersectionModem" type="TSP-ModemPhoneNum" minOccurs="0"/>
        <xs:element name="intersectionDropAddr" type="TSP-DropAddr" minOccurs="0"/>
        <xs:element name="intersectionIP" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="intersectionPort" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
        <xs:element name="intersectionIdentifier" type="tmdd:Intersection-identifier" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcReportServiceEventAck-->
<xs:element name="ccReportServiceEventAck" type="CcReportServiceEventAck"/>
<xs:complexType name="CcReportServiceEventAck">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="acked-event" type="CCEventRecord"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcReportServiceEvent-->
<xs:element name="ccReportServiceEvent" type="CcReportServiceEvent"/>
<xs:complexType name="CcReportServiceEvent">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="event-record" type="CCEventRecord"/>
        <xs:element name="ack-required" type="CPT-Boolean"/>
        <xs:element name="localCcReportServiceEvent" type="local:CcReportServiceEvent" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ObPassengerCountSub-->
<xs:element name="obPassengerCountSub" type="ObPassengerCountSub"/>
<xs:complexType name="ObPassengerCountSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="requesterID" type="OB-MID"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ObPassengerCount-->
<xs:element name="obPassengerCount" type="ObPassengerCount"/>
<xs:complexType name="ObPassengerCount">
```

```
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="requesterID" type="OB-MID"/>
        <xs:element name="event-record" type="OBStoppointRecord"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message FcUnloadData-->
<xs:element name="fcUnloadData" type="FcUnloadData"/>
<xs:complexType name="FcUnloadData">
    <xs:sequence>
        <xs:element name="fileHeader" type="CPTUnloadFileHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="equipment-id" type="CPT-SerialNumber" minOccurs="0"/>
        <xs:element name="equipment-location" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="location-memo" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="location-memoLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="boarding-alighting-list" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="boarding-alighting-list-item" type="FCBoardingAlightingRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="transaction-list" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="transaction-list-item" type="FCTransactionRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="cash-box-contents" type="FCCashBoxContents" minOccurs="0"/>
        <xs:element name="health-list" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="health-list-item" type="FCComponentEventInstance"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="health-update-list" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="health-update-list-item" type="FCComponentEventStatusReport"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="turnstile-counts" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="turnstile-count" type="FCTurnstileCountRecord"/>
```

```
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message FcFareHealthSub-->
<xs:element name="fcFareHealthSub" type="FcFareHealthSub"/>
<xs:complexType name="FcFareHealthSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="equipmentID" type="CPT-SerialNumber" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message FcFareHealth-->
<xs:element name="fcFareHealth" type="FcFareHealth"/>
<xs:complexType name="FcFareHealth">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="equipmentID" type="CPT-SerialNumber" minOccurs="0"/>
        <xs:element name="dateTime" type="CPT-DateTime"/>
        <xs:element name="software-info" type="OBSWComponent"/>
        <xs:element name="farebox-serial-number" type="CPT-SerialNumber" minOccurs="0"/>
        <xs:element name="cashbox-id" type="CPT-SerialNumber" minOccurs="0"/>
        <xs:element name="smartcard-reader-id" type="CPT-SerialNumber" minOccurs="0"/>
        <xs:element name="configuration-table-id" type="CPT-FileVersion" minOccurs="0"/>
        <xs:element name="event-list" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="event-list-item" type="FCComponentEventInstance"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="update-list" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="update-list-item" type="FCComponentEventStatusReport"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="localFcFareHealth" type="local:FcFareHealth" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
```

```
<!-- Message FcFareLoadData-->
<xs:element name="fcFareLoadData" type="FcFareLoadData"/>
<xs:complexType name="FcFareLoadData">
    <xs:sequence>
        <xs:element name="fileHeader" type="CPTLoadFileHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="activationDate" type="CPT-Date" minOccurs="0"/>
        <xs:element name="equipment-stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="equipment-location" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="location-memo" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="location-memoLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="fareZones" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="200">
                    <xs:element name="fareZone" type="FCFareZoneDefinition"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="basicFare" type="FCFareDefinitionRecord" minOccurs="0"/>
        <xs:element name="stopFares" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="stopFare" type="FCFareDefinitionRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="zoneFares" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="zoneFare" type="FCFareDefinitionRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="badMedias" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="badMedia" type="FCFareMediaPair"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="goodMedias" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="goodMedia" type="FCFareMediaPair"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="stopInfosets" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stopInfoset" type="CPTStoppoint"/>
```

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            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="dayDefinitions" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="10">
                <xs:element name="dayDefinition" type="FCDayDefinition"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="allowedTransfers" minOccurs="0">
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            <xs:sequence minOccurs="1" maxOccurs="10000">
                <xs:element name="allowedTransfer" type="FCAllowedTransferRecord"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="accessPermissions" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="100">
                <xs:element name="accessPermission" type="FCFareboxAccessPermission"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="policies" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="10000">
                <xs:element name="policie" type="FCFarePolicyRecord"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="screen-saver" type="CC-ExecutableSoftware" minOccurs="0"/>
    <xs:element name="utfs-actions" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="1000">
                <xs:element name="utfs-action" type="FCActionListEntryUTFS"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
  </xs:sequence>
  <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcAckManualAlarm-->
<xs:element name="ccAckManualAlarm" type="CcAckManualAlarm"/>
<xs:complexType name="CcAckManualAlarm">
  <xs:sequence>
    <xs:element name="alarm-id" type="CC-ManualAlarmID"/>
    <xs:element name="alarm-time" type="CPT-DateTime"/>
  </xs:sequence>
  <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
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<!-- Message CcManualAlarm-->
<xs:element name="ccManualAlarm" type="CcManualAlarm"/>
<xs:complexType name="CcManualAlarm">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="alarm-id" type="CC-ManualAlarmID"/>
        <xs:element name="latitude" type="lrms:Latitude"/>
        <xs:element name="longitude" type="lrms:Longitude"/>
        <xs:element name="direction" type="lrms:Angle"/>
        <xs:element name="speed" type="OB-J1587-VelocityVectorSpeed"/>
        <xs:element name="data-quality" type="SPDataQuality" minOccurs="0"/>
        <xs:element name="alarm-time" type="CPT-DateTime"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcDispatchCallEnd-->
<xs:element name="ccDispatchCallEnd" type="CcDispatchCallEnd"/>
<xs:complexType name="CcDispatchCallEnd">
    <xs:sequence>
        <xs:element name="call-type" type="CC-RadioVoiceControl"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcCallTermination-->
<xs:element name="ccCallTermination" type="CcCallTermination"/>
<xs:complexType name="CcCallTermination">
    <xs:sequence>
        <xs:element name="call-type" type="CC-RadioVoiceControl"/>
    </xs:sequence>
</xs:complexType>
<!-- Message CcAnnunciatorCallSetup-->
<xs:element name="ccAnnunciatorCallSetup" type="CcAnnunciatorCallSetup"/>
<xs:complexType name="CcAnnunciatorCallSetup">
    <xs:sequence>
        <xs:element name="call-type" type="CC-RadioVoiceControl"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcNotifyIncomingCall-->
<xs:element name="ccNotifyIncomingCall" type="CcNotifyIncomingCall"/>
<xs:complexType name="CcNotifyIncomingCall">
    <xs:sequence>
        <xs:element name="call-type" type="CC-RadioVoiceControl"/>
    </xs:sequence>
</xs:complexType>
<!-- Message CcDispatchCallSetup-->
<xs:element name="ccDispatchCallSetup" type="CcDispatchCallSetup"/>
<xs:complexType name="CcDispatchCallSetup">
    <xs:sequence>
        <xs:element name="call-type" type="CC-RadioVoiceControl"/>
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        <xs:element name="channel" type="CPT-ChannelID" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Message CcAcceptCallRequest-->
<xs:element name="ccAcceptCallRequest" type="CcAcceptCallRequest"/>
<xs:complexType name="CcAcceptCallRequest">
    <xs:sequence>
        <xs:element name="call-type-requested" type="CC-ResponseRequestType"/>
        <xs:element name="call-type-actual" type="CC-RadioVoiceControl"/>
        <xs:element name="channel" type="CPT-ChannelID" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcDenyCallRequest-->
<xs:element name="ccDenyCallRequest" type="CcDenyCallRequest"/>
<xs:complexType name="CcDenyCallRequest">
    <xs:sequence>
        <xs:element name="call-type" type="CC-ResponseRequestType"/>
    </xs:sequence>
</xs:complexType>
<!-- Message CcOperatorCallRequest-->
<xs:element name="ccOperatorCallRequest" type="CcOperatorCallRequest"/>
<xs:complexType name="CcOperatorCallRequest">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="call-type" type="CC-ResponseRequestType"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ObVoiceRequestProgress-->
<xs:element name="obVoiceRequestProgress" type="ObVoiceRequestProgress"/>
<xs:complexType name="ObVoiceRequestProgress">
    <xs:sequence>
        <xs:element name="call-type" type="CC-RadioVoiceControl"/>
        <xs:element name="status" type="CC-CallStatus"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ObVoiceRequest-->
<xs:element name="obVoiceRequest" type="ObVoiceRequest"/>
<xs:complexType name="ObVoiceRequest">
    <xs:sequence>
        <xs:element name="call-type" type="CC-ResponseRequestType"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchMasterScheduleVersion-->
<xs:element name="schMasterScheduleVersion" type="SchMasterScheduleVersion"/>
<xs:complexType name="SchMasterScheduleVersion">
    <xs:sequence>
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```
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="begin" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="end" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="agencies" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="agencie" type="CPT-AgencyID"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcPTVAdherence-->
<xs:element name="ccPTVAdherence" type="CcPTVAdherence"/>
<xs:complexType name="CcPTVAdherence">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="reason" type="CC-AdherenceMsgType"/>
        <xs:element name="timepoint" type="SCHTimepointIden" minOccurs="0"/>
        <xs:element name="actualTime" type="SCH-Time" minOccurs="0"/>
        <xs:element name="lastOnRoute" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="currentLocation" type="lrms:GeoLocation"/>
        <xs:element name="currentTime" type="CPT-DateTime"/>
        <xs:element name="scheduleDeviation" type="CPT-Duration"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcPTVAdherenceSub-->
<xs:element name="ccPTVAdherenceSub" type="CcPTVAdherenceSub"/>
<xs:complexType name="CcPTVAdherenceSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="custom-route-params" type="CCActivateRouteAdherence" minOccurs="0"/>
        <xs:element name="custom-sched-params" type="CCActivateScheduleAdherence" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ObNotifyMenu-->
<xs:element name="obNotifyMenu" type="ObNotifyMenu"/>
<xs:complexType name="ObNotifyMenu">
```

```
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="component" type="OB-MID"/>
        <xs:element name="requesteid" type="CPT-RequestIdentifier"/>
        <xs:element name="priority" type="CPT-PriorityLevel"/>
        <xs:element name="operatorMsg" type="CPT-Footnote"/>
        <xs:element name="operatorMsgLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="menu-item-1" type="OB-MenuItemText"/>
        <xs:element name="menu-item-1Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="menu-item-2" type="OB-MenuItemText" minOccurs="0"/>
        <xs:element name="menu-item-2Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="menu-item-3" type="OB-MenuItemText" minOccurs="0"/>
        <xs:element name="menu-item-3Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="menu-item-4" type="OB-MenuItemText" minOccurs="0"/>
        <xs:element name="menu-item-4Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="menu-item-5" type="OB-MenuItemText" minOccurs="0"/>
        <xs:element name="menu-item-5Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="menu-item-6" type="OB-MenuItemText" minOccurs="0"/>
        <xs:element name="menu-item-6Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="menu-item-7" type="OB-MenuItemText" minOccurs="0"/>
        <xs:element name="menu-item-7Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="menu-item-8" type="OB-MenuItemText" minOccurs="0"/>
        <xs:element name="menu-item-8Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="menu-item-9" type="OB-MenuItemText" minOccurs="0"/>
        <xs:element name="menu-item-9Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="menu-item-10" type="OB-MenuItemText" minOccurs="0"/>
        <xs:element name="menu-item-10Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ObMenuResponse-->
<xs:element name="obMenuResponse" type="ObMenuResponse"/>
<xs:complexType name="ObMenuResponse">
    <xs:sequence>
        <xs:element name="component" type="OB-MID"/>
        <xs:element name="requestID" type="CPT-RequestIdentifier"/>
        <xs:element name="result" type="OB-MenuSelection"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ObSignonSub-->
<xs:element name="obSignonSub" type="ObSignonSub"/>
<xs:complexType name="ObSignonSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="requester" type="OB-MID"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ObSignon-->
```

```
<xs:element name="obSignon" type="ObSignon"/>
<xs:complexType name="ObSignon">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="requester" type="OB-MID"/>
        <xs:element name="logon" type="CCLogOnOperator" minOccurs="0"/>
        <xs:element name="logoff" type="CCLogOffOperator" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcChangeAssignmentsAck-->
<xs:element name="ccChangeAssignmentsAck" type="CcChangeAssignmentsAck"/>
<xs:complexType name="CcChangeAssignmentsAck">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="commandID" type="CPT-CommandID"/>
        <xs:element name="bad-changes" type="CPT-Boolean"/>
        <xs:element name="bad-operator-changes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="bad-operator-change" type="CCOperatorAssignmentChange"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="bad-vehicle-changes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="bad-vehicle-change" type="CCVehicleAssignmentChange"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcChangeAssignments-->
<xs:element name="ccChangeAssignments" type="CcChangeAssignments"/>
<xs:complexType name="CcChangeAssignments">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="commandID" type="CPT-CommandID"/>
        <xs:element name="time" type="CPT-DateTime"/>
        <xs:element name="operator-changes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="operator-change" type="CCOperatorAssignmentChange"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="vehicle-changes" minOccurs="0">
            <xs:complexType>
```

```
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="vehicle-change" type="CCVehicleAssignmentChange"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="localCcChangeAssignments" type="local:CcChangeAssignments"
minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcPTVPerformanceData-->
<xs:element name="ccPTVPerformanceData" type="CcPTVPerformanceData"/>
<xs:complexType name="CcPTVPerformanceData">
    <xs:sequence>
        <xs:element name="fileHeader" type="CPTUnloadFileHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="begin-odometer" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="end-odometer" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="operators" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="operator" type="CCSignOnOff"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="engine-cycles" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="engine-cycle" type="CCEngineStartStop"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="vehicle-parameters" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="vehicle-parameter" type="OBParameterDumpEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="work-records" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="work-record" type="CCBlockWorkRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="conn-prot-reqs" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="conn-prot-req" type="CCConnProtLogEntry"/>
                </xs:sequence>
```

```
            </xs:complexType>
        </xs:element>
        <xs:element name="wheelchair-reqs" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="wheelchair-req" type="CCWheelchairLogEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="service-events" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="service-event" type="CCEventRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="consistChanges" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="20000">
                    <xs:element name="consistChange" type="SCHConsistChangeEvent"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="localCcPTVPerformanceData" type="local:CcPTVPerformanceData"
minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptForceUnload-->
<xs:element name="cptForceUnload" type="CptForceUnload"/>
<xs:complexType name="CptForceUnload">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="componentID" type="OB-MID" minOccurs="0"/>
        <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="field-address" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="field-port" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
        <xs:element name="via-WLAN" type="CPT-Boolean"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcCancelDetourAck-->
<xs:element name="ccCancelDetourAck" type="CcCancelDetourAck"/>
<xs:complexType name="CcCancelDetourAck">
    <xs:sequence>
        <xs:element name="detourID" type="CC-DetourID"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcCancelDetour-->
```

```
<xs:element name="ccCancelDetour" type="CcCancelDetour"/>
<xs:complexType name="CcCancelDetour">
    <xs:sequence>
        <xs:element name="end-time" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="detourID" type="CC-DetourID"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcNotifyDetour-->
<xs:element name="ccNotifyDetour" type="CcNotifyDetour"/>
<xs:complexType name="CcNotifyDetour">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="start-time" type="CPT-DateTime"/>
        <xs:element name="end-time" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="detourID" type="CC-DetourID"/>
        <xs:element name="detour-name" type="CPT-Footnote"/>
        <xs:element name="detour-nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="impacts">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="impact" type="CCDetourRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="detourType" type="IM-DetourType" minOccurs="0"/>
        <xs:element name="localCcNotifyDetour" type="local:CcNotifyDetour" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcDetourAck-->
<xs:element name="ccDetourAck" type="CcDetourAck"/>
<xs:complexType name="CcDetourAck">
    <xs:sequence>
        <xs:element name="detourID" type="CC-DetourID"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcPTVAlarmLimits-->
<xs:element name="ccPTVAlarmLimits" type="CcPTVAlarmLimits"/>
<xs:complexType name="CcPTVAlarmLimits">
    <xs:sequence>
        <xs:element name="fileHeader" type="CPTLoadFileHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="thresholds" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="threshold" type="CCParameterThreshold"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
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```
        <xs:element name="parameterLogRates" type="CCParameterRateConfiguration" minOccurs="0"/>
        <xs:element name="offRouteLogRates" type="CCActivateRouteAdherence" minOccurs="0"/>
        <xs:element name="offRouteReportRates" type="CCActivateRouteAdherence" minOccurs="0"/>
        <xs:element name="offScheduleReportRates" type="CCActivateScheduleAdherence" minOccurs="0"/>
        <xs:element name="manualAlarms" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="manualAlarm" type="CCManualAlarmDefinition"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="enableCode" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="disableCode" type="CPT-GenericCounter" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcAnnouncementInfo-->
<xs:element name="ccAnnouncementInfo" type="CcAnnouncementInfo"/>
<xs:complexType name="CcAnnouncementInfo">
    <xs:sequence>
        <xs:element name="fileHeader" type="CPTLoadFileHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="destinations" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="destination" type="CCDestinationSignMessage"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="destinationSignPlanRules" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="destinationSignPlanRule" type="CCDestinationSignRule"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="audioFormat" type="PI-AudioFormat" minOccurs="0"/>
        <xs:element name="distance-before" type="lrms:Distance"/>
        <xs:element name="time-before" type="CPT-Duration" minOccurs="0"/>
        <xs:element name="beforeStopAudio" type="PI-BinaryAudioData" minOccurs="0"/>
        <xs:element name="beforeStopText" type="PI-DMSMessage" minOccurs="0"/>
        <xs:element name="beforeStopTextLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="beforeStopFilename" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="afterStopAudio" type="PI-BinaryAudioData" minOccurs="0"/>
        <xs:element name="afterStopText" type="PI-DMSMessage" minOccurs="0"/>
        <xs:element name="afterStopTextLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="afterStopFilename" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="stopDataSets" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stopDataSet" type="CCStopAnnunciationRecord"/>
```

```
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="event-announcements" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="event-announcement" type="PIEventAnnouncement"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="cannedAnnouncements" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="cannedAnnouncement" type="CCCannedAnnouncementRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="routeWelcomeAnns" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="2000">
                    <xs:element name="routeWelcomeAnn" type="CCRouteWelcomeAnnouncement"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="atStopBeforeNameAudio" type="PI-BinaryAudioData" minOccurs="0"/>
        <xs:element name="atStopAfterNameAudio" type="PI-BinaryAudioData" minOccurs="0"/>
        <xs:element name="atStopBeforeNameText" type="PI-DMSMessage" minOccurs="0"/>
        <xs:element name="atStopBeforeNameTextLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
        <xs:element name="atStopAfterNameText" type="PI-DMSMessage" minOccurs="0"/>
        <xs:element name="atStopAfterNameTextLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
        <xs:element name="atStopBeforeNameFileName" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="atStopAfterNameFileName" type="CPT-Footnote" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcDispatchMessageAck-->
<xs:element name="ccDispatchMessageAck" type="CcDispatchMessageAck"/>
<xs:complexType name="CcDispatchMessageAck">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="time" type="CPT-DateTime"/>
        <xs:element name="positive-Ack" type="CPT-Boolean"/>
        <xs:element name="error" type="CPT-Boolean" minOccurs="0"/>
        <xs:element name="commandID" type="CPT-CommandID"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcCannedMessageText-->
```

```
<xs:element name="ccCannedMessageText" type="CcCannedMessageText"/>
<xs:complexType name="CcCannedMessageText">
    <xs:sequence>
        <xs:element name="fileHeader" type="CPTLoadFileHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="canned-messages" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="canned-message" type="CCCannedMsgDefinition"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="take-lists" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="take-list" type="CCTakeListItemDefinition"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="delete-take-lists" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="delete-take-list" type="CCCannedMsgTakeListIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="delete-msgs" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="delete-msg" type="CCCannedMsgIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcOnboardSoftware-->
<xs:element name="ccOnboardSoftware" type="CcOnboardSoftware"/>
<xs:complexType name="CcOnboardSoftware">
    <xs:sequence>
        <xs:element name="file-header" type="CPTLoadFileHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="software-description" type="OBSWComponent"/>
        <xs:element name="executables">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10">
                    <xs:element name="executable" type="CC-ExecutableSoftware"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
```

```
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcPTVehicleAlarm-->
<xs:element name="ccPTVehicleAlarm" type="CcPTVehicleAlarm"/>
<xs:complexType name="CcPTVehicleAlarm">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="alarms" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="alarm" type="CCAlarm"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="status-reports" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="status-report" type="OBHealthStatusRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="trainID" type="CPTTrainIden" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcPTVehicleAlarmSub-->
<xs:element name="ccPTVehicleAlarmSub" type="CcPTVehicleAlarmSub"/>
<xs:complexType name="CcPTVehicleAlarmSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="custom-limits" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="custom-limit" type="CCParameterThreshold"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcDispatchMessage-->
<xs:element name="ccDispatchMessage" type="CcDispatchMessage"/>
<xs:complexType name="CcDispatchMessage">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="time" type="CPT-DateTime"/>
        <xs:element name="text-msg" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="text-msgLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="cannedMsg" type="CCCannedMsgIden" minOccurs="0"/>
```

```
        <xs:element name="takes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="take" type="CCTakeIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="commandID" type="CPT-CommandID"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcOperatorMessageAck-->
<xs:element name="ccOperatorMessageAck" type="CcOperatorMessageAck"/>
<xs:complexType name="CcOperatorMessageAck">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="time" type="CPT-DateTime"/>
        <xs:element name="error" type="CPT-Boolean" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcOperatorMessage-->
<xs:element name="ccOperatorMessage" type="CcOperatorMessage"/>
<xs:complexType name="CcOperatorMessage">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="time" type="CPT-DateTime"/>
        <xs:element name="text-msg" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="text-msgLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="cannedMsg" type="CCCannedMsgIden" minOccurs="0"/>
        <xs:element name="takes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="6">
                    <xs:element name="take" type="CC-CannedMsgTakeID"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcPTVehicleParameter-->
<xs:element name="ccPTVehicleParameter" type="CcPTVehicleParameter"/>
<xs:complexType name="CcPTVehicleParameter">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="rate" type="CPT-Duration"/>
        <xs:element name="time" type="CPT-DateTime"/>
        <xs:element name="parameters">
```

```
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="100">
                        <xs:element name="parameter" type="OBParameterDumpEntry"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message CcPTVehicleParameterSub-->
    <xs:element name="ccPTVehicleParameterSub" type="CcPTVehicleParameterSub"/>
    <xs:complexType name="CcPTVehicleParameterSub">
        <xs:sequence>
            <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
            <xs:element name="rate" type="CPT-Duration"/>
            <xs:element name="parameters">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="100">
                        <xs:element name="parameter" type="OBParameterID"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message CcVehicleStartupReport-->
    <xs:element name="ccVehicleStartupReport" type="CcVehicleStartupReport"/>
    <xs:complexType name="CcVehicleStartupReport">
        <xs:sequence>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="vehicle" type="CPTVehicleIden"/>
            <xs:element name="date-time" type="CPT-DateTime"/>
            <xs:element name="open-alarms" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="100">
                        <xs:element name="open-alarm" type="OBParameterDumpEntry"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="engine-running" type="CPT-Boolean"/>
            <xs:element name="localCcVehicleStartupReport" type="local:CcVehicleStartupReport"
minOccurs="0"/>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message CcVehicleStartupAck-->
    <xs:element name="ccVehicleStartupAck" type="CcVehicleStartupAck"/>
    <xs:complexType name="CcVehicleStartupAck">
        <xs:sequence>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="vehicle" type="CPTVehicleIden"/>
```

```
            <xs:element name="display-message" type="OB-TextMessage" minOccurs="0"/>
            <xs:element name="display-messageLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message CcVehicleShutdownAck-->
    <xs:element name="ccVehicleShutdownAck" type="CcVehicleShutdownAck"/>
    <xs:complexType name="CcVehicleShutdownAck">
        <xs:sequence>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="vehicle" type="CPTVehicleIden"/>
            <xs:element name="display-message" type="OB-TextMessage" minOccurs="0"/>
            <xs:element name="display-messageLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message CcVehicleShutdownReport-->
    <xs:element name="ccVehicleShutdownReport" type="CcVehicleShutdownReport"/>
    <xs:complexType name="CcVehicleShutdownReport">
        <xs:sequence>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="vehicle" type="CPTVehicleIden"/>
            <xs:element name="date-time" type="CPT-DateTime"/>
            <xs:element name="open-alarms" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="100">
                        <xs:element name="open-alarm" type="OBParameterDumpEntry"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="localCcVehicleShutdownReport" type="local:CcVehicleShutdownReport"
minOccurs="0"/>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message SchVehicleAssignmentFile-->
    <xs:element name="schVehicleAssignmentFile" type="SchVehicleAssignmentFile"/>
    <xs:complexType name="SchVehicleAssignmentFile">
        <xs:sequence>
            <xs:element name="fileHeader" type="CPTLoadFileHeader"/>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="assignments" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="25000">
                        <xs:element name="assignment" type="SCHVehicleAssignment"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="deleted-assignments" minOccurs="0">
```

```
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="deleted-assignment" type="SCHVehicleAssignment"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchOperatorAssignmentFile-->
<xs:element name="schOperatorAssignmentFile" type="SchOperatorAssignmentFile"/>
<xs:complexType name="SchOperatorAssignmentFile">
    <xs:sequence>
        <xs:element name="fileHeader" type="CPTLoadFileHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="assignments" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="assignment" type="SCHOperatorAssignment"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-assignments" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="deleted-assignment" type="SCHOperatorAssignment"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchRouteScheduleFile-->
<xs:element name="schRouteScheduleFile" type="SchRouteScheduleFile"/>
<xs:complexType name="SchRouteScheduleFile">
    <xs:sequence>
        <xs:element name="fileHeader" type="CPTLoadFileHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="route-schedules" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="route-schedule" type="SCHPTVRouteScheduleEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="deleted-route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
```

```
        </xs:element>
        <xs:element name="transfers" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="transfer" type="SCHTransferInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-transfers" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="deleted-transfer" type="SCH-TransferID"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="consistChanges" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20000">
                    <xs:element name="consistChange" type="SCHConsistChangeEvent"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="notes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="2000">
                    <xs:element name="note" type="SCHNoteInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchPatternFile-->
<xs:element name="schPatternFile" type="SchPatternFile"/>
<xs:complexType name="SchPatternFile">
    <xs:sequence>
        <xs:element name="fileHeader" type="CPTLoadFileHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="stoppointVersion" type="CPT-StoppointVersion" minOccurs="0"/>
        <xs:element name="stoppointEffective" type="CPT-DateTime"/>
        <xs:element name="timepointVersion" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="timepointEffective" type="CPT-DateTime"/>
        <xs:element name="patterns" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="2000">
                    <xs:element name="pattern" type="SCHPatternInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="segments" minOccurs="0">
            <xs:complexType>
```

```
            <xs:sequence minOccurs="1" maxOccurs="15000">
                <xs:element name="segment" type="SCHPatternSegment"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="deleted-patterns" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="2000">
                <xs:element name="deleted-pattern" type="SCHPatternIden"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="deleted-segments" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="15000">
                <xs:element name="deleted-segment" type="SCHPatternSegmentIden"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="consistChanges" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="20000">
                <xs:element name="consistChange" type="SCHConsistChangeEvent"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="notes" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="5000">
                <xs:element name="note" type="SCHNoteInfo"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="radiozones" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="100">
                <xs:element name="radiozone" type="CPTRadioZone"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
  </xs:sequence>
  <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchTimepointsFile-->
<xs:element name="schTimepointsFile" type="SchTimepointsFile"/>
<xs:complexType name="SchTimepointsFile">
  <xs:sequence>
    <xs:element name="fileHeader" type="CPTLoadFileHeader"/>
    <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
    <xs:element name="timepoints" minOccurs="0">
        <xs:complexType>
```

```
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="timepoint" type="SCHTimepointInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-timepoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="deleted-timepoint" type="SCHTimepointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="notes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="2000">
                    <xs:element name="note" type="SCHNoteInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptStoppointsFile-->
<xs:element name="cptStoppointsFile" type="CptStoppointsFile"/>
<xs:complexType name="CptStoppointsFile">
    <xs:sequence>
        <xs:element name="fileHeader" type="CPTLoadFileHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="stoppoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stoppoint" type="CPTStoppoint"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="notes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="note" type="SCHNoteInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-stops" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="deleted-stop" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
```

```
</xs:complexType>
<!-- Message CptUnloadRequestError-->
<xs:element name="cptUnloadRequestError" type="CptUnloadRequestError"/>
<xs:complexType name="CptUnloadRequestError">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="componentID" type="OB-MID" minOccurs="0"/>
        <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="field-address" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="field-port" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
        <xs:element name="unavailable-file" type="CPTUnloadFileHeader"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptUnloadControl-->
<xs:element name="cptUnloadControl" type="CptUnloadControl"/>
<xs:complexType name="CptUnloadControl">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="componentID" type="OB-MID" minOccurs="0"/>
        <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="field-address" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="field-port" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
        <xs:element name="deleted-files" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="deleted-file" type="CPTUnloadFileHeader"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="file-to-unload" type="CPTUnloadFileHeader" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptFilesToUnload-->
<xs:element name="cptFilesToUnload" type="CptFilesToUnload"/>
<xs:complexType name="CptFilesToUnload">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="componentID" type="OB-MID" minOccurs="0"/>
        <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="field-address" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="field-port" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
        <xs:element name="available-files" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="available-file" type="CPTUnloadFileHeader"/>
                </xs:sequence>
```

```
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcOperatorSignOff-->
<xs:element name="ccOperatorSignOff" type="CcOperatorSignOff"/>
<xs:complexType name="CcOperatorSignOff">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="logoff-Info" type="CCLogOffOperator"/>
        <xs:element name="block" type="SCHBlockIden" minOccurs="0"/>
        <xs:element name="run" type="SCHRunIden" minOccurs="0"/>
        <xs:element name="localCcOperatorSignOff" type="local:CcOperatorSignOff" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcOperatorSignOffAck-->
<xs:element name="ccOperatorSignOffAck" type="CcOperatorSignOffAck"/>
<xs:complexType name="CcOperatorSignOffAck">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="operator" type="CPTOperatorIden"/>
        <xs:element name="contact-dispatch" type="CPT-Boolean" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcOperatorSignOnAck-->
<xs:element name="ccOperatorSignOnAck" type="CcOperatorSignOnAck"/>
<xs:complexType name="CcOperatorSignOnAck">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="operator" type="CPTOperatorIden"/>
        <xs:element name="logon-error" type="CPT-Boolean" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcOnboardConfigurationData-->
<xs:element name="ccOnboardConfigurationData" type="CcOnboardConfigurationData"/>
<xs:complexType name="CcOnboardConfigurationData">
    <xs:sequence>
        <xs:element name="file-header" type="CPTLoadFileHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="software-description" type="OBSWComponent"/>
        <xs:element name="configurationDataSets">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10">
                    <xs:element name="configurationDataSet" type="CC-ConfigurationData"/>
```

```
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="localCcOnboardConfigurationData" type="local:CcOnboardConfigurationData"
minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcOperatorSignOn-->
<xs:element name="ccOperatorSignOn" type="CcOperatorSignOn"/>
<xs:complexType name="CcOperatorSignOn">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="logon-info" type="CCLogOnOperator"/>
        <xs:element name="localCcOperatorSignOn" type="local:CcOperatorSignOn" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptForceLoad-->
<xs:element name="cptForceLoad" type="CptForceLoad"/>
<xs:complexType name="CptForceLoad">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="componentID" type="OB-MID" minOccurs="0"/>
        <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="field-address" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="field-port" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
        <xs:element name="via-WLAN" type="CPT-Boolean"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptOnboardVersionNotice-->
<xs:element name="cptOnboardVersionNotice" type="CptOnboardVersionNotice"/>
<xs:complexType name="CptOnboardVersionNotice">
    <xs:sequence>
        <xs:element name="on-hand-files">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="on-hand-file" type="CPTLoadFileHeader"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicleID" type="CPTVehicleIden" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptCurrentVersionNotice-->
<xs:element name="cptCurrentVersionNotice" type="CptCurrentVersionNotice"/>
```

```
<xs:complexType name="CptCurrentVersionNotice">
    <xs:sequence>
        <xs:element name="current-files">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="current-file" type="CPTLoadFileHeader"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-files" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="deleted-file" type="CPTLoadFileHeader"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicleID" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="stoppointID" type="CPTStoppointIden" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptLoadControl-->
<xs:element name="cptLoadControl" type="CptLoadControl"/>
<xs:complexType name="CptLoadControl">
    <xs:sequence>
        <xs:element name="on-hand-files">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="on-hand-file" type="CPTLoadFileHeader"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="most-Recent-Load-Time" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="most-Recent-Load-File" type="CPTLoadFileHeader" minOccurs="0"/>
        <xs:element name="most-Recent-Load-Success" type="CPT-Boolean" minOccurs="0"/>
        <xs:element name="stop-Load" type="CPT-Boolean"/>
        <xs:element name="vehicleID" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="load-Stop-Reason" type="CPT-LoadStopReason" minOccurs="0"/>
        <xs:element name="next-file-requested" type="CPTLoadFileHeader" minOccurs="0"/>
        <xs:element name="next-file-update-since" type="CPT-DateTime" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptBadLoadRequest-->
<xs:element name="cptBadLoadRequest" type="CptBadLoadRequest"/>
<xs:complexType name="CptBadLoadRequest">
    <xs:sequence>
        <xs:element name="bad-Request" type="CPTLoadFileHeader"/>
        <xs:element name="reason" type="CPT-LoadStopReason"/>
```

```
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptTransitFacilities-->
<xs:element name="cptTransitFacilities" type="CptTransitFacilities"/>
<xs:complexType name="CptTransitFacilities">
    <xs:sequence>
        <xs:element name="subscriptionHeader" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="facility-types" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="facility-type" type="CPT-TransitFacilityType"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="facilities">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="5000">
                    <xs:element name="facilitie" type="CPTTransitFacility"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptTransitFacilitiesSub-->
<xs:element name="cptTransitFacilitiesSub" type="CptTransitFacilitiesSub"/>
<xs:complexType name="CptTransitFacilitiesSub">
    <xs:sequence>
        <xs:element name="subscriptionHeader" type="CPTSubscriptionHeader"/>
        <xs:element name="facility-types" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="facility-type" type="CPT-TransitFacilityType"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcPTVTripResponse-->
<xs:element name="ccPTVTripResponse" type="CcPTVTripResponse"/>
<xs:complexType name="CcPTVTripResponse">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="command-ID" type="CPT-CommandID"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="command-Accepted" type="CPT-Boolean"/>
        <xs:element name="error-Code" type="CPT-ErrorCode" minOccurs="0"/>
    </xs:sequence>
```

```
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcPTVTrips-->
<xs:element name="ccPTVTrips" type="CcPTVTrips"/>
<xs:complexType name="CcPTVTrips">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="command-ID" type="CPT-CommandID"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="pullout-Time" type="SCH-Time" minOccurs="0"/>
        <xs:element name="pullin-Time" type="SCH-Time" minOccurs="0"/>
        <xs:element name="route" type="SCHRouteIden"/>
        <xs:element name="route-Direction" type="SCH-RouteDirectionName"/>
        <xs:element name="route-DirectionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="date" type="CPT-Date"/>
        <xs:element name="trips">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="30">
                    <xs:element name="trip" type="CCPTVTripData"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="consistChanges" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="30">
                    <xs:element name="consistChange" type="SCHConsistChangeEvent"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcLocationReportSub-->
<xs:element name="ccLocationReportSub" type="CcLocationReportSub"/>
<xs:complexType name="CcLocationReportSub">
    <xs:sequence>
        <xs:element name="subscriptionHeader" type="CPTSubscriptionHeader"/>
    </xs:sequence>
</xs:complexType>
<!-- Message CcLocationReport-->
<xs:element name="ccLocationReport" type="CcLocationReport"/>
<xs:complexType name="CcLocationReport">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="request-id" type="CPT-RequestIdentifier"/>
        <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="status-info" type="CC-RouteAdherenceState" minOccurs="0"/>
        <xs:element name="trip" type="SCHTripIden" minOccurs="0"/>
        <xs:element name="last-timepoint" type="SCHTimepointIden" minOccurs="0"/>
        <xs:element name="time-reported" type="CPT-DateTime"/>
        <xs:element name="latitude" type="lrms:Latitude"/>
```

```
        <xs:element name="longitude" type="lrms:Longitude"/>
        <xs:element name="direction" type="lrms:Angle"/>
        <xs:element name="speed" type="OB-J1587-VelocityVectorSpeed"/>
        <xs:element name="data-quality" type="SPDataQuality" minOccurs="0"/>
        <xs:element name="onboard" type="OB-J1587-PassengerCounterPatronCount" minOccurs="0"/>
        <xs:element name="odometer-reading" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="manufacturer-data" type="CC-ManufacturerData" minOccurs="0"/>
        <xs:element name="tripDistance" type="lrms:Distance" minOccurs="0"/>
        <xs:element name="routeID" type="SCHRouteIden" minOccurs="0"/>
        <xs:element name="blockID" type="SCHBlockIden" minOccurs="0"/>
        <xs:element name="operatorID" type="CPTOperatorIden" minOccurs="0"/>
        <xs:element name="runID" type="SCHRunIden" minOccurs="0"/>
        <xs:element name="destSignCode" type="CC-DestinationMessageID" minOccurs="0"/>
        <xs:element name="emergencyCodes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="3">
                    <xs:element name="emergencyCode" type="CC-EmergencyCode"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="trainID" type="CPTTrainIden" minOccurs="0"/>
        <xs:element name="localCcLocationReport" type="local:CcLocationReport" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Message ObWLANStatus-->
<xs:element name="obWLANStatus" type="ObWLANStatus"/>
<xs:complexType name="ObWLANStatus">
    <xs:sequence>
        <xs:element name="requestIdentifier" type="CPT-RequestIdentifier"/>
        <xs:element name="requester" type="OB-MID"/>
        <xs:element name="wlan-available" type="CPT-Boolean"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchPullInListSub-->
<xs:element name="schPullInListSub" type="SchPullInListSub"/>
<xs:complexType name="SchPullInListSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="beginDate" type="CPT-Date"/>
        <xs:element name="beginTime" type="CPT-Time"/>
        <xs:element name="endDate" type="CPT-Date"/>
        <xs:element name="endTime" type="CPT-Time"/>
        <xs:element name="specific-vehicles" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="specific-vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
```

```
        <xs:element name="specific-routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="specific-route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-garages" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="specific-garage" type="CPTTransitFacilityIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ImIncidentUpdate-->
<xs:element name="imIncidentUpdate" type="ImIncidentUpdate"/>
<xs:complexType name="ImIncidentUpdate">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="originator" type="CPTEmployeeIden"/>
        <xs:element name="incident" type="IMIncidentIden"/>
        <xs:element name="updateTime" type="CPT-DateTime"/>
        <xs:element name="incidentInfo" type="IMIncident" minOccurs="0"/>
        <xs:element name="trafficImpact" type="IMTrafficImpact" minOccurs="0"/>
        <xs:element name="otherVehicles" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="otherVehicle" type="IMOtherVehicleInvolved"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="incidentClosed" type="CPT-Boolean"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ImSilentAlarmClose-->
<xs:element name="imSilentAlarmClose" type="ImSilentAlarmClose"/>
<xs:complexType name="ImSilentAlarmClose">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="timeClosed" type="CPT-DateTime"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ImAlarmCancel-->
<xs:element name="imAlarmCancel" type="ImAlarmCancel"/>
<xs:complexType name="ImAlarmCancel">
```

```
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="timeRequested" type="CPT-DateTime"/>
        <xs:element name="notReally" type="CPT-Boolean" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ImSilentAlarmAck-->
<xs:element name="imSilentAlarmAck" type="ImSilentAlarmAck"/>
<xs:complexType name="ImSilentAlarmAck">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="policeEnroute" type="CPT-Boolean" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ImSilentAlarm-->
<xs:element name="imSilentAlarm" type="ImSilentAlarm"/>
<xs:complexType name="ImSilentAlarm">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="timeDate" type="CPT-DateTime"/>
        <xs:element name="location" type="lrms:GeoLocation"/>
        <xs:element name="inMotion" type="CPT-Boolean" minOccurs="0"/>
        <xs:element name="doorsOpen" type="CPT-Boolean" minOccurs="0"/>
        <xs:element name="passengersOnboard" type="IM-VehicleOccupantCount" minOccurs="0"/>
        <xs:element name="operator" type="CPTOperatorIden" minOccurs="0"/>
        <xs:element name="engineRunning" type="CPT-Boolean" minOccurs="0"/>
        <xs:element name="localImSilentAlarm" type="local:ImSilentAlarm" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiMailingList-->
<xs:element name="piMailingList" type="PiMailingList"/>
<xs:complexType name="PiMailingList">
    <xs:sequence>
        <xs:element name="subscriptionHeader" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="availableMailings" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="2000">
```

```
                <xs:element name="availableMailing" type="PI-TravelerMailingMatl"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
  </xs:sequence>
  <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiMailingListSub-->
<xs:element name="piMailingListSub" type="PiMailingListSub"/>
<xs:complexType name="PiMailingListSub">
  <xs:sequence>
    <xs:element name="subscriptionHeader" type="CPTSubscriptionHeader"/>
    <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
    <xs:element name="routes" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="500">
                <xs:element name="route" type="SCHRouteIden"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
  </xs:sequence>
  <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiMailingResponse-->
<xs:element name="piMailingResponse" type="PiMailingResponse"/>
<xs:complexType name="PiMailingResponse">
  <xs:sequence>
    <xs:element name="commandID" type="CPT-CommandID"/>
    <xs:element name="confirmationNum" type="PI-MailingConfirmNum"/>
    <xs:element name="reason" type="PI-ReasonNotSent" minOccurs="0"/>
  </xs:sequence>
  <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiSendMailing-->
<xs:element name="piSendMailing" type="PiSendMailing"/>
<xs:complexType name="PiSendMailing">
  <xs:sequence>
    <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
    <xs:element name="commandID" type="CPT-CommandID"/>
    <xs:element name="mailingRequest" type="PITravelerProfile"/>
  </xs:sequence>
  <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiServiceBulletinsListSub-->
<xs:element name="piServiceBulletinsListSub" type="PiServiceBulletinsListSub"/>
<xs:complexType name="PiServiceBulletinsListSub">
  <xs:sequence>
    <xs:element name="subscriptionHeader" type="CPTSubscriptionHeader"/>
    <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
    <xs:element name="routes" minOccurs="0">
        <xs:complexType>
```

```
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="trips" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="5000">
                    <xs:element name="trip" type="SCHTripIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="stops" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="stop" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchPullInList-->
<xs:element name="schPullInList" type="SchPullInList"/>
<xs:complexType name="SchPullInList">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="beginDate" type="CPT-Date"/>
        <xs:element name="beginTime" type="CPT-Time"/>
        <xs:element name="endDate" type="CPT-Date"/>
        <xs:element name="endTime" type="CPT-Time"/>
        <xs:element name="specific-vehicles" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="specific-vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="specific-route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-garages" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="specific-garage" type="CPTTransitFacilityIden"/>
                </xs:sequence>
```

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            </xs:complexType>
        </xs:element>
        <xs:element name="pull-ins">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="pull-in" type="SCHPullInOutInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiServiceBulletinsList-->
<xs:element name="piServiceBulletinsList" type="PiServiceBulletinsList"/>
<xs:complexType name="PiServiceBulletinsList">
    <xs:sequence>
        <xs:element name="subscriptionHeader" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="stops" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="stop" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="trips" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="5000">
                    <xs:element name="trip" type="SCHTripIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="bulletins" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="bulletin" type="PIServiceBulletin"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiLandmarksListSub-->
<xs:element name="piLandmarksListSub" type="PiLandmarksListSub"/>
```

```
<xs:complexType name="PiLandmarksListSub">
    <xs:sequence>
        <xs:element name="subscriptionHeader" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="location" type="SPPoint" minOccurs="0"/>
        <xs:element name="distance" type="lrms:Distance" minOccurs="0"/>
        <xs:element name="landmarkTypes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="landmarkType" type="PI-LandmarkType"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiLandmarksList-->
<xs:element name="piLandmarksList" type="PiLandmarksList"/>
<xs:complexType name="PiLandmarksList">
    <xs:sequence>
        <xs:element name="subscriptionHeader" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="location" type="SPPoint" minOccurs="0"/>
        <xs:element name="distance" type="lrms:Distance" minOccurs="0"/>
        <xs:element name="landmarkTypes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="landmarkType" type="PI-LandmarkType"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="landmarkList" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="landmarkList-item" type="PILandmark"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchPatternListSub-->
<xs:element name="schPatternListSub" type="SchPatternListSub"/>
<xs:complexType name="SchPatternListSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="patternVersion" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="effective" type="CPT-DateTime"/>
        <xs:element name="updates-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="need-stoppoints" type="CPT-Boolean"/>
```

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    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchPatternList-->
<xs:element name="schPatternList" type="SchPatternList"/>
<xs:complexType name="SchPatternList">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="patternVersion" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="effective" type="CPT-DateTime"/>
        <xs:element name="update-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="update-thru" type="CPT-DateTime"/>
        <xs:element name="stoppointVersion" type="CPT-StoppointVersion" minOccurs="0"/>
        <xs:element name="stoppointEffective" type="CPT-DateTime"/>
        <xs:element name="timepointVersion" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="timepointEffective" type="CPT-DateTime"/>
        <xs:element name="patterns" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="2000">
                    <xs:element name="pattern" type="SCHPatternInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="segments" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="segment" type="SCHPatternSegment"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-patterns" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="5000">
                    <xs:element name="deleted-pattern" type="SCHPatternIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-segments" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="deleted-segment" type="SCHPatternSegmentIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="consistChange" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20000">
                    <xs:element name="consistChange-item" type="SCHConsistChangeEvent"/>
                </xs:sequence>
            </xs:complexType>
```

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        </xs:element>
        <xs:element name="notes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="5000">
                    <xs:element name="note" type="SCHNoteInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="radio-zones" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="radio-zone" type="CPTRadioZone"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcAdherencePerformanceSub-->
<xs:element name="ccAdherencePerformanceSub" type="CcAdherencePerformanceSub"/>
<xs:complexType name="CcAdherencePerformanceSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="earliest" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="latest" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="patterns" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="pattern" type="SCHPatternIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="timepoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="timepoint" type="SCHTimepointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="trips" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="trip" type="SCHTripIden"/>
```

```
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcAdherencePerformance-->
<xs:element name="ccAdherencePerformance" type="CcAdherencePerformance"/>
<xs:complexType name="CcAdherencePerformance">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="earliest" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="latest" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="patterns" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="pattern" type="SCHPatternIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="timepoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="timepoint" type="SCHTimepointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="trips" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="trip" type="SCHTripIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="records" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="record" type="CCHistoricalAdherenceRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
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minOccurs="0"/>
```

```
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcOpenWorkOrderAck-->
<xs:element name="ccOpenWorkOrderAck" type="CcOpenWorkOrderAck"/>
<xs:complexType name="CcOpenWorkOrderAck">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="commandID" type="CPT-CommandID"/>
        <xs:element name="work-order" type="CCWorkOrder"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcOpenWorkorder-->
<xs:element name="ccOpenWorkorder" type="CcOpenWorkorder"/>
<xs:complexType name="CcOpenWorkorder">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="commandID" type="CPT-CommandID"/>
        <xs:element name="work-order" type="CCWorkOrder"/>
        <xs:element name="localCcOpenWorkorder" type="local:CcOpenWorkorder" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ObReportHealthAck-->
<xs:element name="obReportHealthAck" type="ObReportHealthAck"/>
<xs:complexType name="ObReportHealthAck">
    <xs:sequence>
        <xs:element name="report-time" type="CPT-DateTime"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ObReportHealth-->
<xs:element name="obReportHealth" type="ObReportHealth"/>
<xs:complexType name="ObReportHealth">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="report-time" type="CPT-DateTime"/>
        <xs:element name="note" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="noteLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="status-reports">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="5">
                    <xs:element name="status-report" type="OBHealthStatusRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchPushRouteSchedule-->
```

```
<xs:element name="schPushRouteSchedule" type="SchPushRouteSchedule"/>
<xs:complexType name="SchPushRouteSchedule">
    <xs:sequence>
        <xs:element name="pushHeader" type="CPTPushHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="route" type="SCHRouteIden"/>
        <xs:element name="update-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="route-version" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="effective" type="CPT-DateTime"/>
        <xs:element name="expires" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="mode" type="CPT-Mode" minOccurs="0"/>
        <xs:element name="route-ID-short" type="CC-RouteIDShort" minOccurs="0"/>
        <xs:element name="note-ids" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="note-id" type="SCHNoteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="notes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="2000">
                    <xs:element name="note" type="SCHNoteInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="direction-A" type="SCH-RouteDirectionName" minOccurs="0"/>
        <xs:element name="direction-ALangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="direction-B" type="SCH-RouteDirectionName" minOccurs="0"/>
        <xs:element name="direction-BLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="defaultAPattern" type="SCHPatternIden" minOccurs="0"/>
        <xs:element name="defaultBPattern" type="SCHPatternIden" minOccurs="0"/>
        <xs:element name="scheduledATrips" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="scheduledATrip" type="SCHTripInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="scheduledBTrips" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="scheduledBTrip" type="SCHTripInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deletedATrips" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="deletedATrip" type="SCHTripIden"/>
                </xs:sequence>
```

```
            </xs:complexType>
        </xs:element>
        <xs:element name="deletedBTrips" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="deletedBTrip" type="SCHTripIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="transfers" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="transfer" type="SCHTransferInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-transfers" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="deleted-transfer" type="SCH-TransferID"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchPushMasterScheduleVersion-->
<xs:element name="schPushMasterScheduleVersion" type="SchPushMasterScheduleVersion"/>
<xs:complexType name="SchPushMasterScheduleVersion">
    <xs:sequence>
        <xs:element name="pushHeader" type="CPTPushHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="included-routes">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="included-route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="versionInfos">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="versionInfo" type="SCHRouteVersion"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchOperatorAssignmentListSub-->
<xs:element name="schOperatorAssignmentListSub" type="SchOperatorAssignmentListSub"/>
```

```
<xs:complexType name="SchOperatorAssignmentListSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="beginDate" type="CPT-Date"/>
        <xs:element name="beginTime" type="CPT-Time"/>
        <xs:element name="endDate" type="CPT-Date"/>
        <xs:element name="endTime" type="CPT-Time"/>
        <xs:element name="update-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="specific-operators" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="specific-operator" type="CPTOperatorIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="specific-route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-garages" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="specific-garage" type="CPTOperatorBaseIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiTextTimetableSub-->
<xs:element name="piTextTimetableSub" type="PiTextTimetableSub"/>
<xs:complexType name="PiTextTimetableSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="routes">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="legacy" type="CPT-Boolean"/>
        <xs:element name="begin-time-date" type="CPT-DateTime"/>
        <xs:element name="end-time-date" type="CPT-DateTime"/>
        <xs:element name="print-version" type="CPT-Boolean"/>
        <xs:element name="date" type="CPT-Date"/>
```

```
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiTextTimetable-->
<xs:element name="piTextTimetable" type="PiTextTimetable"/>
<xs:complexType name="PiTextTimetable">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="routes">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="legacy" type="CPT-Boolean"/>
        <xs:element name="begin-time-date" type="CPT-DateTime"/>
        <xs:element name="end-time-date" type="CPT-DateTime"/>
        <xs:element name="notes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="note" type="SCHNoteInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="timepoints">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="timepoint" type="PITimetableTimepoint"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="timetables">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="timetable" type="PIXMLTimetable"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiServiceStatus-->
<xs:element name="piServiceStatus" type="PiServiceStatus"/>
<xs:complexType name="PiServiceStatus">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="requests">
            <xs:complexType>
```

```
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="request" type="PIServiceStatusRequest"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="timeProvided" type="CPT-Time"/>
        <xs:element name="rangeResponses" minOccurs="0">
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                    <xs:element name="rangeResponse" type="PISchedAdherenceRange"/>
                </xs:sequence>
            </xs:complexType>
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        <xs:element name="countdownResponses" minOccurs="0">
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                    <xs:element name="countdownResponse" type="PISchedAdherenceCountdown"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="offSchedResponses" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="offSchedResponse" type="PISchedAdherenceOffSched"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiServiceStatusSub-->
<xs:element name="piServiceStatusSub" type="PiServiceStatusSub"/>
<xs:complexType name="PiServiceStatusSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="requests">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="request" type="PIServiceStatusRequest"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiStoppointParking-->
<xs:element name="piStoppointParking" type="PiStoppointParking"/>
<xs:complexType name="PiStoppointParking">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
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        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="parkingFacID" type="PI-ParkingFacID" minOccurs="0"/>
        <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="location" type="lrms:GeoLocation" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiStoppointParkingSub-->
<xs:element name="piStoppointParkingSub" type="PiStoppointParkingSub"/>
<xs:complexType name="PiStoppointParkingSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="parkingFacID" type="PI-ParkingFacID" minOccurs="0"/>
        <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="location" type="lrms:GeoLocation" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiTripItineraryList-->
<xs:element name="piTripItineraryList" type="PiTripItineraryList"/>
<xs:complexType name="PiTripItineraryList">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="trip-request" type="PITripRequest"/>
        <xs:element name="alternatives" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="10">
                    <xs:element name="alternative" type="atis:Route"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="returnAlternatives" minOccurs="0">
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                    <xs:element name="returnAlternative" type="atis:Route"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchOperatorAssignmentList-->
<xs:element name="schOperatorAssignmentList" type="SchOperatorAssignmentList"/>
<xs:complexType name="SchOperatorAssignmentList">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="begin" type="CPT-DateTime"/>
        <xs:element name="end" type="CPT-DateTime"/>
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        <xs:element name="update-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="specific-operators" minOccurs="0">
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                    <xs:element name="specific-operator" type="CPTOperatorIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-routes" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="specific-route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-garages" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="specific-garage" type="CPTOperatorBaseIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="update-thru" type="CPT-DateTime"/>
        <xs:element name="assignments" minOccurs="0">
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                    <xs:element name="assignment" type="SCHOperatorAssignment"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-assignments" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="deleted-assignment" type="SCHOperatorAssignment"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiTripItineraryListSub-->
<xs:element name="piTripItineraryListSub" type="PiTripItineraryListSub"/>
<xs:complexType name="PiTripItineraryListSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="trip-request" type="PITripRequest"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiNearestStopList-->
```

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<xs:element name="piNearestStopList" type="PiNearestStopList"/>
<xs:complexType name="PiNearestStopList">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="request" type="PINearestStopRequest"/>
        <xs:element name="includeDistance" type="lrms:Distance" minOccurs="0"/>
        <xs:element name="weather-text" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="weather-textLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="area-map" type="PIMap" minOccurs="0"/>
        <xs:element name="stops">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="stop" type="PINearestStop"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiNearestStopListSub-->
<xs:element name="piNearestStopListSub" type="PiNearestStopListSub"/>
<xs:complexType name="PiNearestStopListSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="request" type="PINearestStopRequest"/>
        <xs:element name="includeDistance" type="lrms:Distance" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchMasterScheduleVersionSub-->
<xs:element name="schMasterScheduleVersionSub" type="SchMasterScheduleVersionSub"/>
<xs:complexType name="SchMasterScheduleVersionSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="begin" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="end" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="agencies">
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                    <xs:element name="agencie" type="CPT-AgencyID"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="routes">
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                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
```

```
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptVehicleInventoryListSub-->
<xs:element name="cptVehicleInventoryListSub" type="CptVehicleInventoryListSub"/>
<xs:complexType name="CptVehicleInventoryListSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="Update-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="specific-vehicles" minOccurs="0">
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                    <xs:element name="specific-vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-garages" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="specific-garage" type="CPTTransitFacilityIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptVehicleInventoryList-->
<xs:element name="cptVehicleInventoryList" type="CptVehicleInventoryList"/>
<xs:complexType name="CptVehicleInventoryList">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="specific-vehicles" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="specific-vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-garages" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="specific-garage" type="CPTTransitFacilityIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="vehicles" minOccurs="0">
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```

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                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="vehicle" type="CPTPTVehicle"/>
                </xs:sequence>
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        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchActualRunningTimesSub-->
<xs:element name="schActualRunningTimesSub" type="SchActualRunningTimesSub"/>
<xs:complexType name="SchActualRunningTimesSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="earliest" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="latest" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="routes" minOccurs="0">
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                    <xs:element name="route" type="SCHRouteIden"/>
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            </xs:complexType>
        </xs:element>
        <xs:element name="patterns" minOccurs="0">
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        <xs:element name="timepoints" minOccurs="0">
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        <xs:element name="trips" minOccurs="0">
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                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptSubErrorNotice-->
<xs:element name="cptSubErrorNotice" type="CptSubErrorNotice"/>
<xs:complexType name="CptSubErrorNotice">
    <xs:sequence>
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        <xs:element name="subscription" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="error" type="CPT-ErrorCode"/>
        <xs:element name="description" type="CPT-ErrorDescription" minOccurs="0"/>
        <xs:element name="descriptionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptStoppointListSub-->
<xs:element name="cptStoppointListSub" type="CptStoppointListSub"/>
<xs:complexType name="CptStoppointListSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="update-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="effective" type="CPT-DateTime"/>
        <xs:element name="stoppointVersion" type="CPT-StoppointVersion" minOccurs="0"/>
        <xs:element name="routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="zones" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="zone" type="PIGeoZoneIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="include-location" type="CPT-Boolean"/>
        <xs:element name="include-service" type="CPT-Boolean"/>
        <xs:element name="include-facility" type="CPT-Boolean"/>
        <xs:element name="include-agency" type="CPT-Boolean"/>
        <xs:element name="include-construction" type="CPT-Boolean"/>
        <xs:element name="include-signal" type="CPT-Boolean"/>
        <xs:element name="include-incidents" type="CPT-Boolean"/>
        <xs:element name="include-history" type="CPT-Boolean"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptStoppointList-->
<xs:element name="cptStoppointList" type="CptStoppointList"/>
<xs:complexType name="CptStoppointList">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="update-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="effective" type="CPT-DateTime"/>
        <xs:element name="stoppointVersion" type="CPT-StoppointVersion" minOccurs="0"/>
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        <xs:element name="routes" minOccurs="0">
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                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="zones" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
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                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="include-location" type="CPT-Boolean"/>
        <xs:element name="include-service" type="CPT-Boolean"/>
        <xs:element name="include-facility" type="CPT-Boolean"/>
        <xs:element name="include-agency" type="CPT-Boolean"/>
        <xs:element name="include-construction" type="CPT-Boolean"/>
        <xs:element name="include-signal" type="CPT-Boolean"/>
        <xs:element name="include-incidents" type="CPT-Boolean"/>
        <xs:element name="include-history" type="CPT-Boolean"/>
        <xs:element name="update-thru" type="CPT-DateTime"/>
        <xs:element name="stoppoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stoppoint" type="CPTStoppoint"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-stoppoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="deleted-stoppoint" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchVehicleAssignmentListSub-->
<xs:element name="schVehicleAssignmentListSub" type="SchVehicleAssignmentListSub"/>
<xs:complexType name="SchVehicleAssignmentListSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="beginDate" type="CPT-Date"/>
        <xs:element name="beginTime" type="CPT-Time"/>
        <xs:element name="endDate" type="CPT-Date"/>
        <xs:element name="endTime" type="CPT-Time"/>
        <xs:element name="updateSince" type="CPT-DateTime" minOccurs="0"/>
```

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        <xs:element name="specific-vehicles" minOccurs="0">
            <xs:complexType>
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                    <xs:element name="specific-vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="specific-route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-garages" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="specific-garage" type="CPTTransitFacilityIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchVehicleAssignmentList-->
<xs:element name="schVehicleAssignmentList" type="SchVehicleAssignmentList"/>
<xs:complexType name="SchVehicleAssignmentList">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="begin" type="CPT-DateTime"/>
        <xs:element name="end" type="CPT-DateTime"/>
        <xs:element name="updateSince" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="specific-vehicles" minOccurs="0">
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                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="specific-route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-garages" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="specific-garage" type="CPTTransitFacilityIden"/>
```

```
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="update-thru" type="CPT-DateTime"/>
        <xs:element name="assignments" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="assignment" type="SCHVehicleAssignment"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-assignments" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="deleted-assignment" type="SCHVehicleAssignment"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchUnassignedVehicleListSub-->
<xs:element name="schUnassignedVehicleListSub" type="SchUnassignedVehicleListSub"/>
<xs:complexType name="SchUnassignedVehicleListSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="beginDate" type="CPT-Date"/>
        <xs:element name="beginTime" type="CPT-Time"/>
        <xs:element name="endDate" type="CPT-Date"/>
        <xs:element name="endTime" type="CPT-Time"/>
        <xs:element name="specific-vehicles" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="specific-vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-garages" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="specific-garage" type="CPTTransitFacilityIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="vehicle-attributes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="vehicle-attribute" type="CPT-PTVehicleAttribute"/>
                </xs:sequence>
            </xs:complexType>
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```
        </xs:element>
        <xs:element name="vehicle-types" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10">
                    <xs:element name="vehicle-type" type="CPT-PTVehicleType"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchUnassignedVehicleList-->
<xs:element name="schUnassignedVehicleList" type="SchUnassignedVehicleList"/>
<xs:complexType name="SchUnassignedVehicleList">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="beginDate" type="CPT-Date"/>
        <xs:element name="beginTime" type="CPT-Time"/>
        <xs:element name="endDate" type="CPT-Date"/>
        <xs:element name="endTime" type="CPT-Time"/>
        <xs:element name="specific-vehicles" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="specific-vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-garages" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="specific-garage" type="CPTTransitFacilityIden"/>
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        <xs:element name="vehicle-attributes" minOccurs="0">
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        <xs:element name="vehicle-types" minOccurs="0">
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                    <xs:element name="vehicle-type" type="CPT-PTVehicleType"/>
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        </xs:element>
        <xs:element name="unassigned-vehicles">
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                    <xs:element name="unassigned-vehicle" type="SCHUnassignedVehicle"/>
                </xs:sequence>
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        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchUnassignedOperatorListSub-->
<xs:element name="schUnassignedOperatorListSub" type="SchUnassignedOperatorListSub"/>
<xs:complexType name="SchUnassignedOperatorListSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="beginDate" type="CPT-Date"/>
        <xs:element name="beginTime" type="CPT-Time"/>
        <xs:element name="endDate" type="CPT-Date"/>
        <xs:element name="endTime" type="CPT-Time"/>
        <xs:element name="specific-operators" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="specific-operator" type="CPTOperatorIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-bases" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="specific-base" type="CPTTransitFacilityIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchUnassignedOperatorList-->
<xs:element name="schUnassignedOperatorList" type="SchUnassignedOperatorList"/>
<xs:complexType name="SchUnassignedOperatorList">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="beginDate" type="CPT-Date"/>
        <xs:element name="beginTime" type="CPT-Time"/>
        <xs:element name="endDate" type="CPT-Date"/>
        <xs:element name="endTime" type="CPT-Time"/>
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                    <xs:element name="specific-operator" type="CPTOperatorIden"/>
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```

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        </xs:element>
        <xs:element name="specific-bases" minOccurs="0">
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                    <xs:element name="specific-base" type="CPTTransitFacilityIden"/>
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            </xs:complexType>
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        <xs:element name="unassigned-operators">
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        </xs:element>
        <xs:element name="specific-garages" type="CPTOperatorBaseIden"/>
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</xs:complexType>
<!-- Message SchTripDetailListSub-->
<xs:element name="schTripDetailListSub" type="SchTripDetailListSub"/>
<xs:complexType name="SchTripDetailListSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="beginDate" type="CPT-Date"/>
        <xs:element name="beginTime" type="CPT-Time"/>
        <xs:element name="endDate" type="CPT-Date"/>
        <xs:element name="endTime" type="CPT-Time"/>
        <xs:element name="trips" minOccurs="0">
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                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="timepoints" minOccurs="0">
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                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="stoppoints" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="25000">
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        </xs:element>
        <xs:element name="routes" minOccurs="0">
```

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<!-- Message SchTripDetailList-->
<xs:element name="schTripDetailList" type="SchTripDetailList"/>
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    <xs:sequence>
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        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
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        <xs:element name="beginTime" type="CPT-Time"/>
        <xs:element name="endDate" type="CPT-Date"/>
        <xs:element name="endTime" type="CPT-Time"/>
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                    <xs:element name="trip" type="SCHTripIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="timepoints" minOccurs="0">
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                    <xs:element name="timepoint" type="SCHTimepointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="stoppoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stoppoint" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="routes" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="100">
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                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="trip-details">
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```

```
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    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchActualRunningTimes-->
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<xs:complexType name="SchActualRunningTimes">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="earliest" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="latest" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="routes" minOccurs="0">
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                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="patterns" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="pattern" type="SCHPatternIden"/>
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            </xs:complexType>
        </xs:element>
        <xs:element name="timepoints" minOccurs="0">
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                    <xs:element name="timepoint" type="SCHTimepointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="trips" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="trip" type="SCHTripIden"/>
                </xs:sequence>
            </xs:complexType>
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        <xs:element name="records" minOccurs="0">
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                    <xs:element name="record" type="SCHActualRunningTimeData"/>
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        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
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</xs:complexType>
<!-- Message CcTravelerRequestLogPush-->
<xs:element name="ccTravelerRequestLogPush" type="CcTravelerRequestLogPush"/>
<xs:complexType name="CcTravelerRequestLogPush">
    <xs:sequence>
        <xs:element name="header" type="CPTPushHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="conn-prot-entries" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="30000">
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                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="wheelchair-entries" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="wheelchair-entrie" type="CCWheelchairLogEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcTravelerRequestLog-->
<xs:element name="ccTravelerRequestLog" type="CcTravelerRequestLog"/>
<xs:complexType name="CcTravelerRequestLog">
    <xs:sequence>
        <xs:element name="header" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="begin-time" type="CPT-DateTime"/>
        <xs:element name="end-time" type="CPT-DateTime"/>
        <xs:element name="specific-routes" minOccurs="0">
            <xs:complexType>
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                    <xs:element name="specific-route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-vehicles" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="specific-vehicle" type="CPTVehicleIden"/>
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            </xs:complexType>
        </xs:element>
        <xs:element name="specific-stops" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="specific-stop" type="CPTStoppointIden"/>
                </xs:sequence>
```

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            </xs:complexType>
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        <xs:element name="conn-prot-entries" minOccurs="0">
            <xs:complexType>
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            </xs:complexType>
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        <xs:element name="wheelchair-entries" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="wheelchair-entrie" type="CCWheelchairLogEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcTravelerRequestLogSub-->
<xs:element name="ccTravelerRequestLogSub" type="CcTravelerRequestLogSub"/>
<xs:complexType name="CcTravelerRequestLogSub">
    <xs:sequence>
        <xs:element name="header" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="being-time" type="CPT-DateTime"/>
        <xs:element name="end-time" type="CPT-DateTime"/>
        <xs:element name="specific-routes" minOccurs="0">
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                    <xs:element name="specific-route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-vehicles" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
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                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-stops" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="specific-stop" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
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<!-- Message SchBlockSubsetsSub-->
<xs:element name="schBlockSubsetsSub" type="SchBlockSubsetsSub"/>
<xs:complexType name="SchBlockSubsetsSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="updates-since" type="CPT-DateTime" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchBlockSubsets-->
<xs:element name="schBlockSubsets" type="SchBlockSubsets"/>
<xs:complexType name="SchBlockSubsets">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="updates-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="defined-groups" minOccurs="0">
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                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-groups" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="30000">
                    <xs:element name="deleted-group" type="SCH-BlockSubset"/>
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            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchTimepointListSub-->
<xs:element name="schTimepointListSub" type="SchTimepointListSub"/>
<xs:complexType name="SchTimepointListSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="timepointVersion" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="effective" type="CPT-DateTime"/>
        <xs:element name="update-since" type="CPT-DateTime" minOccurs="0"/>
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    <xs:attributeGroup ref="tcipMsgAttributes"/>
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<!-- Message SchTimepointList-->
<xs:element name="schTimepointList" type="SchTimepointList"/>
<xs:complexType name="SchTimepointList">
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        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
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        <xs:element name="update-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="timepointVersion" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="effective" type="CPT-DateTime"/>
        <xs:element name="expires" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="timepoints" minOccurs="0">
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            </xs:complexType>
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        <xs:element name="deleted-timepoints" minOccurs="0">
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                    <xs:element name="deleted-timepoint" type="SCHTimepointIden"/>
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        <xs:element name="notes" minOccurs="0">
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                    <xs:element name="note" type="SCHNoteInfo"/>
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            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchStopServiceListSub-->
<xs:element name="schStopServiceListSub" type="SchStopServiceListSub"/>
<xs:complexType name="SchStopServiceListSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="beginDate" type="CPT-Date"/>
        <xs:element name="beginTime" type="CPT-Time"/>
        <xs:element name="endDate" type="CPT-Date"/>
        <xs:element name="endTime" type="CPT-Time"/>
        <xs:element name="stoppoints">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stoppoint" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchStopServiceList-->
<xs:element name="schStopServiceList" type="SchStopServiceList"/>
<xs:complexType name="SchStopServiceList">
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    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="beginDate" type="CPT-Date"/>
        <xs:element name="beginTime" type="CPT-Time"/>
        <xs:element name="endDate" type="CPT-Date"/>
        <xs:element name="endTime" type="CPT-Time"/>
        <xs:element name="stoppoints">
            <xs:complexType>
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            </xs:complexType>
        </xs:element>
        <xs:element name="availableServices">
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    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchRouteScheduleSub-->
<xs:element name="schRouteScheduleSub" type="SchRouteScheduleSub"/>
<xs:complexType name="SchRouteScheduleSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="route" type="SCHRouteIden"/>
        <xs:element name="update-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="routeVersion" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="include-events" type="CPT-Boolean"/>
        <xs:element name="effective" type="CPT-DateTime"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchRouteSchedule-->
<xs:element name="schRouteSchedule" type="SchRouteSchedule"/>
<xs:complexType name="SchRouteSchedule">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="route" type="SCHRouteIden"/>
        <xs:element name="update-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="routeversion" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="include-events" type="CPT-Boolean"/>
        <xs:element name="effective" type="CPT-DateTime"/>
        <xs:element name="expires" type="CPT-DateTime" minOccurs="0"/>
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<xs:element name="route-name" type="SCH-RouteName" minOccurs="0"/>
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<xs:element name="route-designator" type="SCH-RouteDesignator" minOccurs="0"/>
<xs:element name="route-designatorLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
<xs:element name="route-ID-short" type="CC-RouteIDShort" minOccurs="0"/>
<xs:element name="notes" minOccurs="0">
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    </xs:complexType>
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<xs:element name="direction-A" type="SCH-RouteDirectionName" minOccurs="0"/>
<xs:element name="direction-ALangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
<xs:element name="direction-B" type="SCH-RouteDirectionName" minOccurs="0"/>
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<xs:element name="defaultAPattern" type="SCHPatternIden" minOccurs="0"/>
<xs:element name="defaultBPattern" type="SCHPatternIden" minOccurs="0"/>
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<xs:element name="deletedBTrips" minOccurs="0">
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        <xs:sequence minOccurs="1" maxOccurs="10000">
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        <xs:element name="deleted-transfers" minOccurs="0">
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        </xs:element>
        <xs:element name="consistChanges" minOccurs="0">
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            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchPullOutListSub-->
<xs:element name="schPullOutListSub" type="SchPullOutListSub"/>
<xs:complexType name="SchPullOutListSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="beginDate" type="CPT-Date"/>
        <xs:element name="beginTime" type="CPT-Time"/>
        <xs:element name="endDate" type="CPT-Date"/>
        <xs:element name="endTime" type="CPT-Time"/>
        <xs:element name="specific-vehicles" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="specific-vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="specific-route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-garages" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="specific-garage" type="CPTTransitFacilityIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
```

```
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchPullOutList-->
<xs:element name="schPullOutList" type="SchPullOutList"/>
<xs:complexType name="SchPullOutList">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="beginDate" type="CPT-Date"/>
        <xs:element name="beginTime" type="CPT-Time"/>
        <xs:element name="endDate" type="CPT-Date"/>
        <xs:element name="endTime" type="CPT-Time"/>
        <xs:element name="specific-vehicles" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="specific-vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="specific-route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-garages" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="specific-garage" type="CPTTransitFacilityIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="pull-outs">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="pull-out" type="SCHPullInOutInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiItineraryFare-->
<xs:element name="piItineraryFare" type="PiItineraryFare"/>
<xs:complexType name="PiItineraryFare">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="itineraries">
            <xs:complexType>
```

```
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="itinerarie" type="atis:Route"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiItineraryFareSub-->
<xs:element name="piItineraryFareSub" type="PiItineraryFareSub"/>
<xs:complexType name="PiItineraryFareSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="itinerarys">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="itinerary" type="atis:Route"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcFleetHealthAlarm-->
<xs:element name="ccFleetHealthAlarm" type="CcFleetHealthAlarm"/>
<xs:complexType name="CcFleetHealthAlarm">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicles" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="alarms" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="alarm" type="CCPTVAlarm"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="status-reports" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="status-report" type="OBHealthStatusRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
```

```
        <xs:element name="localCcFleetHealthAlarm" type="local:CcFleetHealthAlarm" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcFleetHealthAlarmSub-->
<xs:element name="ccFleetHealthAlarmSub" type="CcFleetHealthAlarmSub"/>
<xs:complexType name="CcFleetHealthAlarmSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicles" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcFleetLocation-->
<xs:element name="ccFleetLocation" type="CcFleetLocation"/>
<xs:complexType name="CcFleetLocation">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="locations">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="location" type="CCPTVLocation"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="Publicvehicles" type="CPTVehicleIden"/>
        <xs:element name="localCcFleetLocation" type="local:CcFleetLocation" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcFleetLocationSub-->
<xs:element name="ccFleetLocationSub" type="CcFleetLocationSub"/>
<xs:complexType name="CcFleetLocationSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicles" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
```

```
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcOperatingDataSub-->
<xs:element name="ccOperatingDataSub" type="CcOperatingDataSub"/>
<xs:complexType name="CcOperatingDataSub">
    <xs:sequence>
        <xs:element name="subscription-info" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicles">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="begin-date" type="CPT-DateTime"/>
        <xs:element name="end-date" type="CPT-DateTime"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcOperatingData-->
<xs:element name="ccOperatingData" type="CcOperatingData"/>
<xs:complexType name="CcOperatingData">
    <xs:sequence>
        <xs:element name="subscription-info" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicles">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="begin-date" type="CPT-DateTime"/>
        <xs:element name="end-date" type="CPT-DateTime"/>
        <xs:element name="operating-datasets">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50000">
                    <xs:element name="operating-dataset" type="CCOperatingRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="localCcOperatingData" type="local:CcOperatingData" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcUnloadImages-->
<xs:element name="ccUnloadImages" type="CcUnloadImages"/>
<xs:complexType name="CcUnloadImages">
    <xs:sequence>
```

```
        <xs:element name="fileHeader" type="CPTUnloadFileHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="video-datasets">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="video-dataset" type="CCVideoRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcTravelerAlarm-->
<xs:element name="ccTravelerAlarm" type="CcTravelerAlarm"/>
<xs:complexType name="CcTravelerAlarm">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="stoppoint" type="CPTStoppointIden"/>
        <xs:element name="time" type="CPT-DateTime"/>
        <xs:element name="localCcTravelerAlarm" type="local:CcTravelerAlarm" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcTravelerAlarmAck-->
<xs:element name="ccTravelerAlarmAck" type="CcTravelerAlarmAck"/>
<xs:complexType name="CcTravelerAlarmAck">
    <xs:sequence>
        <xs:element name="alarm-time" type="CPT-DateTime"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message FcRevenueDataSub-->
<xs:element name="fcRevenueDataSub" type="FcRevenueDataSub"/>
<xs:complexType name="FcRevenueDataSub">
    <xs:sequence>
        <xs:element name="subscription-info" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicles" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="stoppoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stoppoint" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
```

```
        <xs:element name="begin-date" type="CPT-DateTime"/>
        <xs:element name="end-date" type="CPT-DateTime"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message FcRevenueData-->
<xs:element name="fcRevenueData" type="FcRevenueData"/>
<xs:complexType name="FcRevenueData">
    <xs:sequence>
        <xs:element name="subscription-info" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicles" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="stoppoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stoppoint" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="begin-date" type="CPT-DateTime"/>
        <xs:element name="end-date" type="CPT-DateTime"/>
        <xs:element name="revenue-datasets">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="revenue-dataset" type="FCRevenueRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcRemotePTVEnableAck-->
<xs:element name="ccRemotePTVEnableAck" type="CcRemotePTVEnableAck"/>
<xs:complexType name="CcRemotePTVEnableAck">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="commandID" type="CPT-CommandID"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="time" type="CPT-DateTime"/>
        <xs:element name="vehicleEnabled" type="CPT-Boolean"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcRemotePTVEnable-->
<xs:element name="ccRemotePTVEnable" type="CcRemotePTVEnable"/>
```

```
<xs:complexType name="CcRemotePTVEnable">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="commandID" type="CPT-CommandID"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="time" type="CPT-DateTime"/>
        <xs:element name="enable-code" type="CPT-GenericCounter"/>
        <xs:element name="verify-command" type="CPT-Boolean"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcRemotePTVDisableAck-->
<xs:element name="ccRemotePTVDisableAck" type="CcRemotePTVDisableAck"/>
<xs:complexType name="CcRemotePTVDisableAck">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="commandID" type="CPT-CommandID"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="time" type="CPT-DateTime"/>
        <xs:element name="vehicleDisabled" type="CPT-Boolean"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcRemotePTVDisable-->
<xs:element name="ccRemotePTVDisable" type="CcRemotePTVDisable"/>
<xs:complexType name="CcRemotePTVDisable">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="commandID" type="CPT-CommandID"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="time" type="CPT-DateTime"/>
        <xs:element name="disable-code" type="CPT-GenericCounter"/>
        <xs:element name="verify-command" type="CPT-Boolean"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcPollResults-->
<xs:element name="ccPollResults" type="CcPollResults"/>
<xs:complexType name="CcPollResults">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="date-time" type="CPT-DateTime"/>
        <xs:element name="ptv-info" type="CCPollResponseContents"/>
    </xs:sequence>
</xs:complexType>
<!-- Message CcPollParameters-->
<xs:element name="ccPollParameters" type="CcPollParameters"/>
<xs:complexType name="CcPollParameters">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
```

```
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="nAgencyDataMaxTries" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="nAllocRetry" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="nBitRate" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="nBitSync" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="nCtlPTVQ" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="nMaxBadPoll" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="nMaxMsgLengthToPTV" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="nMaxMsgLengthFromPTV" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="nMsgMaxTries" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="tRadioTime" type="CPT-MillisecondDuration" minOccurs="0"/>
        <xs:element name="tFastPollInterval" type="CPT-Duration" minOccurs="0"/>
        <xs:element name="tPriorityPoll" type="CPT-Duration" minOccurs="0"/>
        <xs:element name="tSessionOnly" type="CPT-Duration" minOccurs="0"/>
        <xs:element name="tSessionPollStart" type="CPT-Duration" minOccurs="0"/>
        <xs:element name="tStartup" type="CPT-Duration" minOccurs="0"/>
        <xs:element name="tSessionPoll" type="CPT-Duration" minOccurs="0"/>
        <xs:element name="init-polling-groups" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="255">
                    <xs:element name="init-polling-group" type="CCPollingGroupInit"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="add-group-PTVs" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="200">
                    <xs:element name="add-group-PTV" type="CCPollingGroupUpdate"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="ptv-poll-datasets" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="3000">
                    <xs:element name="ptv-poll-dataset" type="CCPollControl"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcPollParametersSub-->
<xs:element name="ccPollParametersSub" type="CcPollParametersSub"/>
<xs:complexType name="CcPollParametersSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message FcReportCashboxEventAck-->
<xs:element name="fcReportCashboxEventAck" type="FcReportCashboxEventAck"/>
```

```
    <xs:complexType name="FcReportCashboxEventAck">
        <xs:sequence>
            <xs:element name="report-time" type="CPT-DateTime"/>
            <xs:element name="ack-application" type="CPT-ApplicationID"/>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message FcReportCashboxEvent-->
    <xs:element name="fcReportCashboxEvent" type="FcReportCashboxEvent"/>
    <xs:complexType name="FcReportCashboxEvent">
        <xs:sequence>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="time-reported" type="CPT-DateTime"/>
            <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
            <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
            <xs:element name="equipmentID" type="CPT-SerialNumber"/>
            <xs:element name="event" type="FCCashBoxEvent"/>
            <xs:element name="localFcReportCashboxEvent" type="local:FcReportCashboxEvent"
minOccurs="0"/>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message FcReportValidationErrors-->
    <xs:element name="fcReportValidationErrors" type="FcReportValidationErrors"/>
    <xs:complexType name="FcReportValidationErrors">
        <xs:sequence>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
            <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
            <xs:element name="file-identifier" type="CPT-FileIdentifier"/>
            <xs:element name="version-number" type="CPT-FileVersion"/>
            <xs:element name="time-failed" type="CPT-DateTime" minOccurs="0"/>
            <xs:element name="found-errors">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="300">
                        <xs:element name="found-error" type="FCValidationError"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message FcReportValidationErrorsAck-->
    <xs:element name="fcReportValidationErrorsAck" type="FcReportValidationErrorsAck"/>
    <xs:complexType name="FcReportValidationErrorsAck">
        <xs:sequence>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="vehicle" type="CPTVehicleIden"/>
            <xs:element name="version-used" type="CPT-FileVersion"/>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
```

```
</xs:complexType>
<!-- Message CcWheelchairDeny-->
<xs:element name="ccWheelchairDeny" type="CcWheelchairDeny"/>
<xs:complexType name="CcWheelchairDeny">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="requester-id" type="CC-TravelerRequestID"/>
        <xs:element name="requester-time" type="CPT-DateTime"/>
        <xs:element name="requester-vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="pickupStoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="pickupLocation" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="requester-route" type="SCHRouteIden"/>
        <xs:element name="requester-route-direction" type="lrms:Direction" minOccurs="0"/>
        <xs:element name="to-stoppoint" type="CPTStoppointIden"/>
        <xs:element name="requester-eta-at-stoppoint" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="reason" type="CC-TravelerDenyReason" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcWheelchairAck-->
<xs:element name="ccWheelchairAck" type="CcWheelchairAck"/>
<xs:complexType name="CcWheelchairAck">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="requester-id" type="CC-TravelerRequestID"/>
        <xs:element name="requester-time" type="CPT-DateTime"/>
        <xs:element name="requester-vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="pickupStoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="pickupLocation" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="requester-route" type="SCHRouteIden"/>
        <xs:element name="requester-route-direction" type="lrms:Direction" minOccurs="0"/>
        <xs:element name="to-stoppoint" type="CPTStoppointIden"/>
        <xs:element name="requester-eta-at-stoppoint" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="central-id" type="CC-TravelerRequestID"/>
        <xs:element name="wait-until" type="CPT-DateTime"/>
        <xs:element name="pickup-PTV" type="CPTVehicleIden"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcWheelchairAppr-->
<xs:element name="ccWheelchairAppr" type="CcWheelchairAppr"/>
<xs:complexType name="CcWheelchairAppr">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="requester-id" type="CC-TravelerRequestID"/>
        <xs:element name="requester-time" type="CPT-DateTime"/>
        <xs:element name="requester-vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="pickupStoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="pickupLocation" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="requester-route" type="SCHRouteIden"/>
        <xs:element name="requester-route-direction" type="lrms:Direction" minOccurs="0"/>
```

```
        <xs:element name="to-stoppoint" type="CPTStoppointIden"/>
        <xs:element name="requester-eta-at-stoppoint" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="central-id" type="CC-TravelerRequestID"/>
        <xs:element name="wait-until" type="CPT-DateTime"/>
        <xs:element name="pickup-PTV" type="CPTVehicleIden"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcWheelchairReq-->
<xs:element name="ccWheelchairReq" type="CcWheelchairReq"/>
<xs:complexType name="CcWheelchairReq">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="requester-id" type="CC-TravelerRequestID"/>
        <xs:element name="requester-time" type="CPT-DateTime"/>
        <xs:element name="requester-vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="pickupStoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="pickupLocation" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="requester-route" type="SCHRouteIden"/>
        <xs:element name="requester-route-direction" type="lrms:Direction" minOccurs="0"/>
        <xs:element name="to-stoppoint" type="CPTStoppointIden"/>
        <xs:element name="requester-eta-at-stoppoint" type="CPT-DateTime" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcWheelchairPickup-->
<xs:element name="ccWheelchairPickup" type="CcWheelchairPickup"/>
<xs:complexType name="CcWheelchairPickup">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="requester-id" type="CC-TravelerRequestID"/>
        <xs:element name="requester-time" type="CPT-DateTime"/>
        <xs:element name="requester-vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="pickupStoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="pickupLocation" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="requester-route" type="SCHRouteIden"/>
        <xs:element name="requester-route-direction" type="lrms:Direction" minOccurs="0"/>
        <xs:element name="to-stoppoint" type="CPTStoppointIden"/>
        <xs:element name="requester-eta-at-stoppoint" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="central-id" type="CC-TravelerRequestID"/>
        <xs:element name="wait-until" type="CPT-DateTime"/>
        <xs:element name="pickup-PTV" type="CPTVehicleIden"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcFleetMechanicalDataSub-->
<xs:element name="ccFleetMechanicalDataSub" type="CcFleetMechanicalDataSub"/>
<xs:complexType name="CcFleetMechanicalDataSub">
    <xs:sequence>
        <xs:element name="subscription-info" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
```

```
        <xs:element name="groups" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="group" type="CPT-FleetSubset"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="selected-vehicles" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="30000">
                    <xs:element name="selected-vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="selected-routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="selected-route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcFleetMechanicalData-->
<xs:element name="ccFleetMechanicalData" type="CcFleetMechanicalData"/>
<xs:complexType name="CcFleetMechanicalData">
    <xs:sequence>
        <xs:element name="subscription-info" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="groups" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="group" type="CPT-FleetSubset"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="selected-vehicles" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="30000">
                    <xs:element name="selected-vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="selected-routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="selected-route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
```

```
            <xs:element name="vehicle-mech-records" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="30000">
                        <xs:element name="vehicle-mech-record" type="CCVehicleMechRecord"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="localCcFleetMechanicalData" type="local:CcFleetMechanicalData"
minOccurs="0"/>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message CcFleetPassengerDataSub-->
    <xs:element name="ccFleetPassengerDataSub" type="CcFleetPassengerDataSub"/>
    <xs:complexType name="CcFleetPassengerDataSub">
        <xs:sequence>
            <xs:element name="subscription-info" type="CPTSubscriptionHeader"/>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="groups" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="100">
                        <xs:element name="group" type="CPT-FleetSubset"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="selected-vehicles" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="30000">
                        <xs:element name="selected-vehicle" type="CPTVehicleIden"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="selected-routes" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="100">
                        <xs:element name="selected-route" type="SCHRouteIden"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message CcFleetPassengerData-->
    <xs:element name="ccFleetPassengerData" type="CcFleetPassengerData"/>
    <xs:complexType name="CcFleetPassengerData">
        <xs:sequence>
            <xs:element name="subscription-info" type="CPTSubscriptionHeader"/>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="groups" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="100">
```

```
                <xs:element name="group" type="CPT-FleetSubset"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="selected-vehicles" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="30000">
                <xs:element name="selected-vehicle" type="CPTVehicleIden"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="selected-routes" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="100">
                <xs:element name="selected-route" type="SCHRouteIden"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="vehicle-pass-records" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="30000">
                <xs:element name="vehicle-pass-record" type="CCVehiclePassRecord"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="localCcFleetPassengerData" type="local:CcFleetPassengerData"
minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiProfile-->
<xs:element name="piProfile" type="PiProfile"/>
<xs:complexType name="PiProfile">
    <xs:sequence>
        <xs:element name="subscriptionHeader" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="customer" type="PITravelerIden"/>
        <xs:element name="customer-ssn" type="CPT-SSN" minOccurs="0"/>
        <xs:element name="customer-username" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="customer-usernameLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
        <xs:element name="customer-password" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="password-reminder" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="current-profile" type="PICustomerProfile" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ObWLANStatusSub-->
<xs:element name="obWLANStatusSub" type="ObWLANStatusSub"/>
<xs:complexType name="ObWLANStatusSub">
    <xs:sequence>
```

```
            <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
            <xs:element name="requester" type="OB-MID"/>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message ObLocation-->
    <xs:element name="obLocation" type="ObLocation"/>
    <xs:complexType name="ObLocation">
        <xs:sequence>
            <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="requestIdentifier" type="CPT-RequestIdentifier"/>
            <xs:element name="requesterID" type="OB-MID"/>
            <xs:element name="reason" type="OB-LocationReportReason"/>
            <xs:element name="trip" type="SCHTripIden" minOccurs="0"/>
            <xs:element name="time-reported" type="CPT-DateTime"/>
            <xs:element name="latitude" type="lrms:Latitude"/>
            <xs:element name="longitude" type="lrms:Longitude"/>
            <xs:element name="direction" type="lrms:Angle"/>
            <xs:element name="speed" type="OB-J1587-VelocityVectorSpeed"/>
            <xs:element name="data-quality" type="SPDataQuality" minOccurs="0"/>
            <xs:element name="timepoint" type="SCHTimepointIden" minOccurs="0"/>
            <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
            <xs:element name="activationID" type="SCHActivationIden" minOccurs="0"/>
            <xs:element name="passengers-aboard" type="OB-J1587-PassengerCounterPatronCount"
minOccurs="0"/>
            <xs:element name="on-route" type="CPT-Boolean"/>
            <xs:element name="schedule-status" type="CPT-Duration" minOccurs="0"/>
            <xs:element name="layover-location" type="lrms:GeoLocation" minOccurs="0"/>
            <xs:element name="layover-end" type="CPT-DateTime" minOccurs="0"/>
            <xs:element name="odometer-reading" type="CPT-GenericCounter" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Message ObLocationSub-->
    <xs:element name="obLocationSub" type="ObLocationSub"/>
    <xs:complexType name="ObLocationSub">
        <xs:sequence>
            <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
            <xs:element name="requesterID" type="OB-MID"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Message SchRosterList-->
    <xs:element name="schRosterList" type="SchRosterList"/>
    <xs:complexType name="SchRosterList">
        <xs:sequence>
            <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="beginDate" type="CPT-Date"/>
            <xs:element name="endDate" type="CPT-Date"/>
            <xs:element name="specific-operators" minOccurs="0">
                <xs:complexType>
```

```
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="specific-operator" type="CPTOperatorIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-Routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="specific-Route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-Garages" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="specific-Garage" type="CPTOperatorBaseIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="rosters">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="roster" type="SCHRoster"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchRosterListSub-->
<xs:element name="schRosterListSub" type="SchRosterListSub"/>
<xs:complexType name="SchRosterListSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="beginDate" type="CPT-Date"/>
        <xs:element name="endDate" type="CPT-Date"/>
        <xs:element name="specific-operators" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="specific-operator" type="CPTOperatorIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-Routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="specific-Route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
```

```
        <xs:element name="specific-Garages" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="specific-Garage" type="CPTOperatorBaseIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiStopPointETASub-->
<xs:element name="piStopPointETASub" type="PiStopPointETASub"/>
<xs:complexType name="PiStopPointETASub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="stoppoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stoppoint" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiStopPointETA-->
<xs:element name="piStopPointETA" type="PiStopPointETA"/>
<xs:complexType name="PiStopPointETA">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="stoppoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stoppoint" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="arrival-estimates" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="arrival-estimate" type="PISchedAdherenceCountdown"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ImIncidentListSub-->
<xs:element name="imIncidentListSub" type="ImIncidentListSub"/>
```

```
<xs:complexType name="ImIncidentListSub">
    <xs:sequence>
        <xs:element name="header" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="requester" type="CPTEmployeeIden"/>
        <xs:element name="routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="vicinity" type="SPPoint" minOccurs="0"/>
        <xs:element name="garages" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="garage" type="CPTTransitFacilityIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specificIncident" type="IMIncidentIden" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ImIncidentList-->
<xs:element name="imIncidentList" type="ImIncidentList"/>
<xs:complexType name="ImIncidentList">
    <xs:sequence>
        <xs:element name="header" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="requester" type="CPTEmployeeIden"/>
        <xs:element name="routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="vicinity" type="SPPoint" minOccurs="0"/>
        <xs:element name="garages" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="garage" type="CPTTransitFacilityIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specificIncident" type="IMIncidentIden" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ImInitialIncidentReport-->
```

```
<xs:element name="imInitialIncidentReport" type="ImInitialIncidentReport"/>
<xs:complexType name="ImInitialIncidentReport">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="originator" type="CPTEmployeeIden"/>
        <xs:element name="incidentInfo" type="IMIncident"/>
        <xs:element name="trafficImpact" type="IMTrafficImpact" minOccurs="0"/>
        <xs:element name="otherVehicles" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="otherVehicle" type="IMOtherVehicleInvolved"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ImInitialReportAck-->
<xs:element name="imInitialReportAck" type="ImInitialReportAck"/>
<xs:complexType name="ImInitialReportAck">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="originator" type="CPTEmployeeIden"/>
        <xs:element name="incident" type="IMIncidentIden"/>
        <xs:element name="ackTime" type="CPT-DateTime"/>
        <xs:element name="dispatcher" type="CPTEmployeeIden" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ImUpdateAck-->
<xs:element name="imUpdateAck" type="ImUpdateAck"/>
<xs:complexType name="ImUpdateAck">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="originator" type="CPTEmployeeIden"/>
        <xs:element name="incidentID" type="IM-IncidentID"/>
        <xs:element name="dispatcher" type="CPTEmployeeIden" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiProfileSub-->
<xs:element name="piProfileSub" type="PiProfileSub"/>
<xs:complexType name="PiProfileSub">
    <xs:sequence>
        <xs:element name="subscriptionHeader" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="customer" type="PITravelerIden"/>
        <xs:element name="customer-ssn" type="CPT-SSN" minOccurs="0"/>
        <xs:element name="customer-username" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="customer-password" type="CPT-Footnote" minOccurs="0"/>
    </xs:sequence>
```

```
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message PiAckNewProfile-->
    <xs:element name="piAckNewProfile" type="PiAckNewProfile"/>
    <xs:complexType name="PiAckNewProfile">
        <xs:sequence>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="time-submitted" type="CPT-DateTime"/>
            <xs:element name="new-profile-number" type="PITravelerIden"/>
            <xs:element name="existing-profile-number" type="PITravelerIden" minOccurs="0"/>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message PiReportNewProfile-->
    <xs:element name="piReportNewProfile" type="PiReportNewProfile"/>
    <xs:complexType name="PiReportNewProfile">
        <xs:sequence>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="time-submitted" type="CPT-DateTime"/>
            <xs:element name="profile" type="PICustomerProfile"/>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message PiReportAckProfileUpdate-->
    <xs:element name="piReportAckProfileUpdate" type="PiReportAckProfileUpdate"/>
    <xs:complexType name="PiReportAckProfileUpdate">
        <xs:sequence>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="time-submitted" type="CPT-DateTime"/>
            <xs:element name="customer" type="PITravelerIden" minOccurs="0"/>
            <xs:element name="username" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="update-accepted" type="CPT-Boolean"/>
            <xs:element name="reason-not-accepted" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="reason-not-acceptedLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message PiReportProfileUpdate-->
    <xs:element name="piReportProfileUpdate" type="PiReportProfileUpdate"/>
    <xs:complexType name="PiReportProfileUpdate">
        <xs:sequence>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="time-submitted" type="CPT-DateTime"/>
            <xs:element name="profile" type="PICustomerProfile"/>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message PiAckSubscriptionUpdate-->
    <xs:element name="piAckSubscriptionUpdate" type="PiAckSubscriptionUpdate"/>
    <xs:complexType name="PiAckSubscriptionUpdate">
```

```
        <xs:sequence>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="time-submitted" type="CPT-DateTime"/>
            <xs:element name="customer-id" type="PITravelerIden" minOccurs="0"/>
            <xs:element name="username" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="usernameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="all-updates-accepted" type="CPT-Boolean"/>
            <xs:element name="reason-not-accepted" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="reason-not-acceptedLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="current-subscriptions" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="20">
                        <xs:element name="current-subscription" type="PICustSubscription"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message PiReportSubscriptionUpdate-->
    <xs:element name="piReportSubscriptionUpdate" type="PiReportSubscriptionUpdate"/>
    <xs:complexType name="PiReportSubscriptionUpdate">
        <xs:sequence>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="time-submitted" type="CPT-DateTime"/>
            <xs:element name="customer" type="PITravelerIden" minOccurs="0"/>
            <xs:element name="password" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="username" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="deleted-subscriptions" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="20">
                        <xs:element name="deleted-subscription" type="PICustSubscription"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="added-subscriptions" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="20">
                        <xs:element name="added-subscription" type="PICustSubscription"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="modified-subscriptions" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="20">
                        <xs:element name="modified-subscription" type="PICustSubscription"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
        </xs:sequence>
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    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiFoundItems-->
<xs:element name="piFoundItems" type="PiFoundItems"/>
<xs:complexType name="PiFoundItems">
    <xs:sequence>
        <xs:element name="subscriptionHeader" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="lost-items">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="lost-item" type="PILostItem"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="found-items" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="found-item" type="PIFoundItem"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ImCommandIncidentResponseAck-->
<xs:element name="imCommandIncidentResponseAck" type="ImCommandIncidentResponseAck"/>
<xs:complexType name="ImCommandIncidentResponseAck">
    <xs:sequence>
        <xs:element name="commandID" type="CPT-CommandID"/>
        <xs:element name="dispatch-time" type="CPT-DateTime"/>
        <xs:element name="will-respond" type="CPT-Boolean"/>
        <xs:element name="eta-time" type="CPT-DateTime" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ImCommandIncidentResponse-->
<xs:element name="imCommandIncidentResponse" type="ImCommandIncidentResponse"/>
<xs:complexType name="ImCommandIncidentResponse">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="commandID" type="CPT-CommandID"/>
        <xs:element name="dispatch-time" type="CPT-DateTime"/>
        <xs:element name="incident-info" type="IMIncident"/>
        <xs:element name="response-units">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10">
                    <xs:element name="response-unit" type="IMResponseUnit"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
```

```
            <xs:element name="localImCommandIncidentResponse" type="local:ImCommandIncidentResponse"
minOccurs="0"/>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message SpMapImageSub-->
    <xs:element name="spMapImageSub" type="SpMapImageSub"/>
    <xs:complexType name="SpMapImageSub">
        <xs:sequence>
            <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="box" type="SPBoundaryBox" minOccurs="0"/>
            <xs:element name="range" type="SPBoundaryRange" minOccurs="0"/>
            <xs:element name="content" type="SPBoundaryContent" minOccurs="0"/>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message SpMapImage-->
    <xs:element name="spMapImage" type="SpMapImage"/>
    <xs:complexType name="SpMapImage">
        <xs:sequence>
            <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="box" type="SPBoundaryBox" minOccurs="0"/>
            <xs:element name="range" type="SPBoundaryRange" minOccurs="0"/>
            <xs:element name="content" type="SPBoundaryContent" minOccurs="0"/>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message CcReportPullOutsAck-->
    <xs:element name="ccReportPullOutsAck" type="CcReportPullOutsAck"/>
    <xs:complexType name="CcReportPullOutsAck">
        <xs:sequence>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="report-employee" type="CPTEmployeeIden"/>
            <xs:element name="report-time" type="CPT-DateTime"/>
            <xs:element name="ack-employee" type="CPTEmployeeIden"/>
            <xs:element name="ack-time" type="CPT-DateTime"/>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message CcReportPullOuts-->
    <xs:element name="ccReportPullOuts" type="CcReportPullOuts"/>
    <xs:complexType name="CcReportPullOuts">
        <xs:sequence>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="report-employee" type="CPTEmployeeIden"/>
            <xs:element name="report-time" type="CPT-DateTime"/>
            <xs:element name="pull-outs">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="100">
```

```
                <xs:element name="pull-out" type="CCPullOutReport"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
  </xs:sequence>
  <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcReportPullInsAck-->
<xs:element name="ccReportPullInsAck" type="CcReportPullInsAck"/>
<xs:complexType name="CcReportPullInsAck">
  <xs:sequence>
    <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
    <xs:element name="report-employee" type="CPTEmployeeIden"/>
    <xs:element name="report-time" type="CPT-DateTime"/>
    <xs:element name="ack-employee" type="CPTEmployeeIden"/>
    <xs:element name="ack-time" type="CPT-DateTime"/>
  </xs:sequence>
  <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcReportPullIns-->
<xs:element name="ccReportPullIns" type="CcReportPullIns"/>
<xs:complexType name="CcReportPullIns">
  <xs:sequence>
    <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
    <xs:element name="report-employee" type="CPTEmployeeIden"/>
    <xs:element name="report-time" type="CPT-DateTime"/>
    <xs:element name="pull-ins">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="100">
                <xs:element name="pull-in" type="CCPullInReport"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
  </xs:sequence>
  <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcVideoFeed-->
<xs:element name="ccVideoFeed" type="CcVideoFeed"/>
<xs:complexType name="CcVideoFeed">
  <xs:sequence>
    <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
    <xs:element name="cameras" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="5">
                <xs:element name="camera" type="CPT-GenericCounter"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="begin" type="CPT-DateTime" minOccurs="0"/>
    <xs:element name="format" type="PI-GraphicFormat"/>
    <xs:element name="images">
```

```
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="5">
                    <xs:element name="image" type="PI-BinaryVideoData"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcVideoFeedSub-->
<xs:element name="ccVideoFeedSub" type="CcVideoFeedSub"/>
<xs:complexType name="CcVideoFeedSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="cameras" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="5">
                    <xs:element name="camera" type="CPT-GenericCounter"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="begin" type="CPT-DateTime" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ObNotifyTripStart-->
<xs:element name="obNotifyTripStart" type="ObNotifyTripStart"/>
<xs:complexType name="ObNotifyTripStart">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="actual-start-time" type="CPT-DateTime"/>
        <xs:element name="trip-info" type="CCPTVTripData"/>
        <xs:element name="localObNotifyTripStart" type="local:ObNotifyTripStart" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcVideoImagesSub-->
<xs:element name="ccVideoImagesSub" type="CcVideoImagesSub"/>
<xs:complexType name="CcVideoImagesSub">
    <xs:sequence>
        <xs:element name="subscription-info" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicles" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="stoppoints" minOccurs="0">
            <xs:complexType>
```

```
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stoppoint" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="begin-datetime" type="CPT-DateTime"/>
        <xs:element name="end-datetime" type="CPT-DateTime"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcVideoImages-->
<xs:element name="ccVideoImages" type="CcVideoImages"/>
<xs:complexType name="CcVideoImages">
    <xs:sequence>
        <xs:element name="subscription-info" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicles" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="stoppoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stoppoint" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="begin-datetime" type="CPT-DateTime"/>
        <xs:element name="end-datetime" type="CPT-DateTime"/>
        <xs:element name="video-datasets">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="video-dataset" type="CCVideoRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcWorkOrderAssignAck-->
<xs:element name="ccWorkOrderAssignAck" type="CcWorkOrderAssignAck"/>
<xs:complexType name="CcWorkOrderAssignAck">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="assignee" type="CPTEmployeeIden"/>
        <xs:element name="time-assigned" type="CPT-DateTime"/>
        <xs:element name="work-order-number" type="CC-WorkorderNumber"/>
        <xs:element name="accepted" type="CPT-Boolean"/>
```

```
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcWorkOrderAssign-->
<xs:element name="ccWorkOrderAssign" type="CcWorkOrderAssign"/>
<xs:complexType name="CcWorkOrderAssign">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="assignee" type="CPTEmployeeIden"/>
        <xs:element name="time-assigned" type="CPT-DateTime"/>
        <xs:element name="work-order" type="CCWorkOrder"/>
        <xs:element name="localCcWorkOrderAssign" type="local:CcWorkOrderAssign" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcWorkOrderUpdateAck-->
<xs:element name="ccWorkOrderUpdateAck" type="CcWorkOrderUpdateAck"/>
<xs:complexType name="CcWorkOrderUpdateAck">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="assignee" type="CPTEmployeeIden"/>
        <xs:element name="update-time" type="CPT-DateTime"/>
        <xs:element name="work-order-number" type="CC-WorkorderNumber"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SpGeolocationData-->
<xs:element name="spGeolocationData" type="SpGeolocationData"/>
<xs:complexType name="SpGeolocationData">
    <xs:sequence>
        <xs:element name="header" type="CPTPushHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="stoppoint-locations" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stoppoint-location" type="SPStopGeoLoc"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="facility-locations" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="facility-location" type="SPFacilityGeoLoc"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="timepoint-locations" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="timepoint-location" type="SPTimepointGeoLoc"/>
                </xs:sequence>
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            </xs:complexType>
        </xs:element>
        <xs:element name="incident-locations" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="incident-location" type="SPIncidentLocation"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="pattern-segment-waypoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="pattern-segment-waypoint" type="SPSegmentGeolocation"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiItineraryMap-->
<xs:element name="piItineraryMap" type="PiItineraryMap"/>
<xs:complexType name="PiItineraryMap">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="itinerarys">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="itinerary" type="atis:Route"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="map-contents" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="200">
                    <xs:element name="map-content" type="CPT-FeatureType"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="highlight-items" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="highlight-item" type="CPTGenericIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="highlight-classes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="highlight-classe" type="CPT-FeatureType"/>
                </xs:sequence>
```

```
            </xs:complexType>
        </xs:element>
        <xs:element name="trip-maps">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="trip-map" type="PIMap"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiItineraryMapSub-->
<xs:element name="piItineraryMapSub" type="PiItineraryMapSub"/>
<xs:complexType name="PiItineraryMapSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="itinerarys">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="itinerary" type="atis:Route"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="map-contents" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="200">
                    <xs:element name="map-content" type="CPT-FeatureType"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="highlight-items" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="highlight-item" type="CPTGenericIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="highlight-classes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="highlight-classe" type="CPT-FeatureType"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message FcFareDataPush-->
<xs:element name="fcFareDataPush" type="FcFareDataPush"/>
```

```
<xs:complexType name="FcFareDataPush">
    <xs:sequence>
        <xs:element name="push-header" type="CPTPushHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="activationDate" type="CPT-Date"/>
        <xs:element name="fareZones">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="200">
                    <xs:element name="fareZone" type="FCFareZoneDefinition"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="basicFare" type="FCFareDefinitionRecord" minOccurs="0"/>
        <xs:element name="stopFares" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="stopFare" type="FCFareDefinitionRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="zoneFares" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="zoneFare" type="FCFareDefinitionRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="badMedias" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="badMedia" type="FCFareMediaPair"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="stopInfoSets" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stopInfoSet" type="CPTStoppoint"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="dayDefinitions" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10">
                    <xs:element name="dayDefinition" type="FCDayDefinition"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="allowedTransfers" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
```

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                <xs:element name="allowedTransfer" type="FCAllowedTransferRecord"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="accessPermissions" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="100">
                <xs:element name="accessPermission" type="FCFareboxAccessPermission"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="policies" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="10000">
                <xs:element name="policie" type="FCFarePolicyRecord"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
  </xs:sequence>
  <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message FcFareZonePush-->
<xs:element name="fcFareZonePush" type="FcFareZonePush"/>
<xs:complexType name="FcFareZonePush">
  <xs:sequence>
    <xs:element name="push-header" type="CPTPushHeader"/>
    <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
    <xs:element name="activationDate" type="CPT-Date"/>
    <xs:element name="fareZones">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="200">
                <xs:element name="fareZone" type="FCFareZoneDefinition"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
  </xs:sequence>
  <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message FcEquipmentSubsetsSub-->
<xs:element name="fcEquipmentSubsetsSub" type="FcEquipmentSubsetsSub"/>
<xs:complexType name="FcEquipmentSubsetsSub">
  <xs:sequence>
    <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
    <xs:element name="updates-since" type="CPT-DateTime" minOccurs="0"/>
  </xs:sequence>
  <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message FcEquipmentSubsets-->
<xs:element name="fcEquipmentSubsets" type="FcEquipmentSubsets"/>
<xs:complexType name="FcEquipmentSubsets">
  <xs:sequence>
```

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        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="updates-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="defined-groups" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="30000">
                    <xs:element name="defined-group" type="FCEquipmentGroup"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-groups" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="30000">
                    <xs:element name="deleted-group" type="FC-FareEquipmentSubset"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message FcReportVaultEventAck-->
<xs:element name="fcReportVaultEventAck" type="FcReportVaultEventAck"/>
<xs:complexType name="FcReportVaultEventAck">
    <xs:sequence>
        <xs:element name="report-time" type="CPT-DateTime"/>
        <xs:element name="ack-application" type="CPT-ApplicationID"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message FcReportVaultEvent-->
<xs:element name="fcReportVaultEvent" type="FcReportVaultEvent"/>
<xs:complexType name="FcReportVaultEvent">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="time-reported" type="CPT-DateTime"/>
        <xs:element name="vault" type="CPT-SerialNumber"/>
        <xs:element name="event" type="FCVaultEvent"/>
        <xs:element name="localFcReportVaultEvent" type="local:FcReportVaultEvent" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptCommandTimeUpdate-->
<xs:element name="cptCommandTimeUpdate" type="CptCommandTimeUpdate"/>
<xs:complexType name="CptCommandTimeUpdate">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="commandID" type="CPT-CommandID"/>
        <xs:element name="current-time" type="CPT-DateTime"/>
        <xs:element name="utc-offset" type="CPT-Duration" minOccurs="0"/>
        <xs:element name="time-name" type="CPT-TimeName" minOccurs="0"/>
        <xs:element name="time-nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
```

```
    </xs:sequence>
</xs:complexType>
<!-- Message FcCommandEnableEquipAck-->
<xs:element name="fcCommandEnableEquipAck" type="FcCommandEnableEquipAck"/>
<xs:complexType name="FcCommandEnableEquipAck">
    <xs:sequence>
        <xs:element name="commandID" type="CPT-CommandID"/>
        <xs:element name="command-time" type="CPT-DateTime"/>
        <xs:element name="exit-free-mode" type="CPT-Boolean"/>
        <xs:element name="command-accepted" type="CPT-Boolean"/>
        <xs:element name="time-implemented" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="exit-free-mode-ids" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="exit-free-mode-id" type="CPT-SerialNumber"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="resume-ops-ids" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="resume-ops-id" type="CPT-SerialNumber"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message FcCommandEnableEquip-->
<xs:element name="fcCommandEnableEquip" type="FcCommandEnableEquip"/>
<xs:complexType name="FcCommandEnableEquip">
    <xs:sequence>
        <xs:element name="commandID" type="CPT-CommandID"/>
        <xs:element name="command-time" type="CPT-DateTime"/>
        <xs:element name="exit-free-mode" type="CPT-Boolean"/>
        <xs:element name="equipment-ids" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="equipment-id" type="CPT-SerialNumber"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message FcCommandDisableEquipAck-->
<xs:element name="fcCommandDisableEquipAck" type="FcCommandDisableEquipAck"/>
<xs:complexType name="FcCommandDisableEquipAck">
    <xs:sequence>
        <xs:element name="commandID" type="CPT-CommandID"/>
        <xs:element name="command-time" type="CPT-DateTime"/>
```

```
        <xs:element name="free-mode-requested" type="CPT-Boolean"/>
        <xs:element name="command-accepted" type="CPT-Boolean"/>
        <xs:element name="time-implemented" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="free-mode-ids" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="free-mode-id" type="CPT-SerialNumber"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="cease-ops-ids" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="cease-ops-id" type="CPT-SerialNumber"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message FcCommandDisableEquip-->
<xs:element name="fcCommandDisableEquip" type="FcCommandDisableEquip"/>
<xs:complexType name="FcCommandDisableEquip">
    <xs:sequence>
        <xs:element name="commandID" type="CPT-CommandID"/>
        <xs:element name="command-time" type="CPT-DateTime"/>
        <xs:element name="free-mode" type="CPT-Boolean"/>
        <xs:element name="equipment-ids" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="equipment-id" type="CPT-SerialNumber"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchPushRoster-->
<xs:element name="schPushRoster" type="SchPushRoster"/>
<xs:complexType name="SchPushRoster">
    <xs:sequence>
        <xs:element name="header" type="CPTPushHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="beginDate" type="CPT-Date"/>
        <xs:element name="endDate" type="CPT-Date"/>
        <xs:element name="rosters">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="roster" type="SCHRoster"/>
                </xs:sequence>
            </xs:complexType>
```

```
            </xs:element>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message FcReportReconcileCashboxAck-->
    <xs:element name="fcReportReconcileCashboxAck" type="FcReportReconcileCashboxAck"/>
    <xs:complexType name="FcReportReconcileCashboxAck">
        <xs:sequence>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="reported-time" type="CPT-DateTime"/>
            <xs:element name="vaultID" type="CPT-SerialNumber" minOccurs="0"/>
            <xs:element name="facility" type="CPTTransitFacilityIden" minOccurs="0"/>
            <xs:element name="cashboxes">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="10000">
                        <xs:element name="cashboxe" type="CPT-SerialNumber"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message FcReportReconcileCashbox-->
    <xs:element name="fcReportReconcileCashbox" type="FcReportReconcileCashbox"/>
    <xs:complexType name="FcReportReconcileCashbox">
        <xs:sequence>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="time-reported" type="CPT-DateTime"/>
            <xs:element name="vaultID" type="CPT-SerialNumber" minOccurs="0"/>
            <xs:element name="facility" type="CPTTransitFacilityIden" minOccurs="0"/>
            <xs:element name="reconciliations">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="10000">
                        <xs:element name="reconciliation" type="FCCashBoxReconciliation"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="localFcReportReconcileCashbox" type="local:FcReportReconcileCashbox"
minOccurs="0"/>
        </xs:sequence>
        <xs:attributeGroup ref="tcipMsgAttributes"/>
    </xs:complexType>
    <!-- Message FcPassengerDataSub-->
    <xs:element name="fcPassengerDataSub" type="FcPassengerDataSub"/>
    <xs:complexType name="FcPassengerDataSub">
        <xs:sequence>
            <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
            <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
            <xs:element name="begin" type="CPT-DateTime" minOccurs="0"/>
            <xs:element name="end" type="CPT-DateTime" minOccurs="0"/>
            <xs:element name="routes" minOccurs="0">
```

```
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="stoppoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stoppoint" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message FcPassengerData-->
<xs:element name="fcPassengerData" type="FcPassengerData"/>
<xs:complexType name="FcPassengerData">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="begin" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="end" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="stoppoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stoppoint" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="records" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="record" type="FCPassengerCountRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message FcFareZonesSub-->
<xs:element name="fcFareZonesSub" type="FcFareZonesSub"/>
<xs:complexType name="FcFareZonesSub">
```

```
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message FcFareZones-->
<xs:element name="fcFareZones" type="FcFareZones"/>
<xs:complexType name="FcFareZones">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="time-provided" type="CPT-DateTime"/>
        <xs:element name="activation-date" type="CPT-Date"/>
        <xs:element name="zones">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="200">
                    <xs:element name="zone" type="FCFareZoneDefinition"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptWatchdogTimer-->
<xs:element name="cptWatchdogTimer" type="CptWatchdogTimer"/>
<xs:complexType name="CptWatchdogTimer">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="time-sent" type="CPT-DateTime"/>
    </xs:sequence>
</xs:complexType>
<!-- Message CptWatchdogTimerSub-->
<xs:element name="cptWatchdogTimerSub" type="CptWatchdogTimerSub"/>
<xs:complexType name="CptWatchdogTimerSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
    </xs:sequence>
</xs:complexType>
<!-- Message CptStoppointSubsetsSub-->
<xs:element name="cptStoppointSubsetsSub" type="CptStoppointSubsetsSub"/>
<xs:complexType name="CptStoppointSubsetsSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="updates-since" type="CPT-DateTime" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptStoppointSubsets-->
<xs:element name="cptStoppointSubsets" type="CptStoppointSubsets"/>
<xs:complexType name="CptStoppointSubsets">
    <xs:sequence>
```

```
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="updates-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="defined-groups" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="30000">
                    <xs:element name="defined-group" type="CPTStoppointSubsetGroup"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-groups" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="30000">
                    <xs:element name="deleted-group" type="CPT-StoppointSubset"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptFleetSubsetsSub-->
<xs:element name="cptFleetSubsetsSub" type="CptFleetSubsetsSub"/>
<xs:complexType name="CptFleetSubsetsSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="updates-since" type="CPT-DateTime" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptFleetSubsets-->
<xs:element name="cptFleetSubsets" type="CptFleetSubsets"/>
<xs:complexType name="CptFleetSubsets">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="updates-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="defined-groups" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="30000">
                    <xs:element name="defined-group" type="CPTFleetSubsetGroup"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-groups" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="30000">
                    <xs:element name="deleted-group" type="CPT-FleetSubset"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
```

```
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcTriggerCannedAnnouncementAck-->
<xs:element name="ccTriggerCannedAnnouncementAck" type="CcTriggerCannedAnnouncementAck"/>
<xs:complexType name="CcTriggerCannedAnnouncementAck">
    <xs:sequence>
        <xs:element name="commandID" type="CPT-CommandID"/>
        <xs:element name="time-received" type="CPT-DateTime"/>
        <xs:element name="command-accepted" type="CPT-Boolean"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcTriggerCannedAnnouncement-->
<xs:element name="ccTriggerCannedAnnouncement" type="CcTriggerCannedAnnouncement"/>
<xs:complexType name="CcTriggerCannedAnnouncement">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="commandID" type="CPT-CommandID"/>
        <xs:element name="time" type="CPT-DateTime"/>
        <xs:element name="announcementID" type="CCAnnouncementIden"/>
        <xs:element name="repeats" type="CPT-GenericCounter"/>
        <xs:element name="repeat-interval" type="CPT-Duration" minOccurs="0"/>
        <xs:element name="ack-required" type="CPT-Boolean"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiFoundItemsSub-->
<xs:element name="piFoundItemsSub" type="PiFoundItemsSub"/>
<xs:complexType name="PiFoundItemsSub">
    <xs:sequence>
        <xs:element name="subscriptionHeader" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="lost-items">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="lost-item" type="PILostItem"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiReportLostItemsAck-->
<xs:element name="piReportLostItemsAck" type="PiReportLostItemsAck"/>
<xs:complexType name="PiReportLostItemsAck">
    <xs:sequence>
        <xs:element name="report-time" type="CPT-DateTime"/>
        <xs:element name="report-ids">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="report-id" type="PI-LostFoundItemID"/>
```

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                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiReportLostItems-->
<xs:element name="piReportLostItems" type="PiReportLostItems"/>
<xs:complexType name="PiReportLostItems">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="time-sent" type="CPT-DateTime"/>
        <xs:element name="reports">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="report" type="PILostItem"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptPushSuccess-->
<xs:element name="cptPushSuccess" type="CptPushSuccess"/>
<xs:complexType name="CptPushSuccess">
    <xs:sequence>
        <xs:element name="push-header" type="CPTPushHeader"/>
        <xs:element name="time-received" type="CPT-DateTime"/>
    </xs:sequence>
</xs:complexType>
<!-- Message CptPushFailure-->
<xs:element name="cptPushFailure" type="CptPushFailure"/>
<xs:complexType name="CptPushFailure">
    <xs:sequence>
        <xs:element name="push-header" type="CPTPushHeader"/>
        <xs:element name="time-received" type="CPT-DateTime"/>
        <xs:element name="reason" type="CPT-ErrorCode"/>
    </xs:sequence>
</xs:complexType>
<!-- Message ImIncidentHistory-->
<xs:element name="imIncidentHistory" type="ImIncidentHistory"/>
<xs:complexType name="ImIncidentHistory">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="requester" type="CPTEmployeeIden"/>
        <xs:element name="routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
```

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            </xs:complexType>
        </xs:element>
        <xs:element name="vicinity" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="radius" type="lrms:Distance" minOccurs="0"/>
        <xs:element name="earliest" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="latest" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="incidents" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="incident" type="IMIncidentIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="incident-reports" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="incident-report" type="IMIncidentInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message ImIncidentHistorySub-->
<xs:element name="imIncidentHistorySub" type="ImIncidentHistorySub"/>
<xs:complexType name="ImIncidentHistorySub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="requester" type="CPTEmployeeIden"/>
        <xs:element name="routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="vicinity" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="radius" type="lrms:Distance" minOccurs="0"/>
        <xs:element name="earliest" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="latest" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="incidents" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="incident" type="IMIncidentIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
```

```
<!-- Message CcPassengerAlarmAck-->
<xs:element name="ccPassengerAlarmAck" type="CcPassengerAlarmAck"/>
<xs:complexType name="CcPassengerAlarmAck">
    <xs:sequence>
        <xs:element name="alarm-time" type="CPT-DateTime"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcPassengerAlarm-->
<xs:element name="ccPassengerAlarm" type="CcPassengerAlarm"/>
<xs:complexType name="CcPassengerAlarm">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="latitude" type="lrms:Latitude"/>
        <xs:element name="longitude" type="lrms:Longitude"/>
        <xs:element name="direction" type="lrms:Angle"/>
        <xs:element name="speed" type="OB-J1587-VelocityVectorSpeed"/>
        <xs:element name="data-quality" type="SPDataQuality" minOccurs="0"/>
        <xs:element name="time" type="CPT-DateTime"/>
        <xs:element name="localCcPassengerAlarm" type="local:CcPassengerAlarm" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SpRouteGeoTraceSub-->
<xs:element name="spRouteGeoTraceSub" type="SpRouteGeoTraceSub"/>
<xs:complexType name="SpRouteGeoTraceSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="pattern-version" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="route-schedule-version" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="timepoint-version" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="stoppoint-version" type="CPT-StoppointVersion" minOccurs="0"/>
        <xs:element name="pattern" type="SCHPatternIden" minOccurs="0"/>
        <xs:element name="segments" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="segment" type="SCHPatternSegmentIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="trip" type="SCHTripIden" minOccurs="0"/>
        <xs:element name="timestop-points" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="timestop-point" type="SCHTimeStoppoint"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="block" type="SCHBlockIden" minOccurs="0"/>
```

```
        <xs:element name="run" type="SCHRunIden"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SpRouteGeoTrace-->
<xs:element name="spRouteGeoTrace" type="SpRouteGeoTrace"/>
<xs:complexType name="SpRouteGeoTrace">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="pattern-version" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="route-schedule-version" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="timepoint-version" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="stoppoint-version" type="CPT-StoppointVersion" minOccurs="0"/>
        <xs:element name="pattern" type="SCHPatternIden" minOccurs="0"/>
        <xs:element name="segments" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="segment" type="SCHPatternSegmentIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="trip" type="SCHTripIden" minOccurs="0"/>
        <xs:element name="timestop-points" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="timestop-point" type="SCHTimeStoppoint"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="block" type="SCHBlockIden" minOccurs="0"/>
        <xs:element name="run" type="SCHRunIden" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SpLocationConversion-->
<xs:element name="spLocationConversion" type="SpLocationConversion"/>
<xs:complexType name="SpLocationConversion">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="point-conversions">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="point-conversion" type="SPLocationConversionEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
```

```
<!-- Message SpLocationConversionSub-->
<xs:element name="spLocationConversionSub" type="SpLocationConversionSub"/>
<xs:complexType name="SpLocationConversionSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="point-requests">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="point-request" type="SPLocationConversionRequest"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiAmenitiesList-->
<xs:element name="piAmenitiesList" type="PiAmenitiesList"/>
<xs:complexType name="PiAmenitiesList">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="stoppoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stoppoint" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="facilities" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="facilitie" type="CPTTransitFacilityIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="update-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="deleted-amenities" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="deleted-amenitie" type="PIAmenityIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
```

```
        <xs:element name="amenities" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="amenitie" type="PIAmenity"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiAmenitiesListSub-->
<xs:element name="piAmenitiesListSub" type="PiAmenitiesListSub"/>
<xs:complexType name="PiAmenitiesListSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="stoppoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stoppoint" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="facilities" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="facilitie" type="CPTTransitFacilityIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="update-since" type="CPT-DateTime" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptShelterList-->
<xs:element name="cptShelterList" type="CptShelterList"/>
<xs:complexType name="CptShelterList">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="route" type="SCHRouteIden"/>
```

```
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="stoppoints" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="25000">
                <xs:element name="stoppoint" type="CPTStoppointIden"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="facilities" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="500">
                <xs:element name="facilitie" type="CPTTransitFacilityIden"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="update-since" type="CPT-DateTime" minOccurs="0"/>
    <xs:element name="deleted-shelters" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="25000">
                <xs:element name="deleted-shelter" type="CPTShelterIden"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="shelters" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="25000">
                <xs:element name="shelter" type="CPTShelter"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
  </xs:sequence>
  <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptShelterListSub-->
<xs:element name="cptShelterListSub" type="CptShelterListSub"/>
<xs:complexType name="CptShelterListSub">
  <xs:sequence>
    <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
    <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
    <xs:element name="routes" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="500">
                <xs:element name="route" type="SCHRouteIden"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="stoppoints" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="25000">
```

```
                <xs:element name="stoppoint" type="CPTStoppointIden"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="facilities" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="500">
                <xs:element name="facilitie" type="CPTTransitFacilityIden"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="update-since" type="CPT-DateTime" minOccurs="0"/>
  </xs:sequence>
  <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchRunningTimeListSub-->
<xs:element name="schRunningTimeListSub" type="SchRunningTimeListSub"/>
<xs:complexType name="SchRunningTimeListSub">
  <xs:sequence>
    <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
    <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
    <xs:element name="patternVersion" type="SCH-TimetableVersionID" minOccurs="0"/>
    <xs:element name="pattern-eff" type="CPT-DateTime" minOccurs="0"/>
    <xs:element name="routes" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="500">
                <xs:element name="route" type="SCHRouteIden"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="patterns" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="5000">
                <xs:element name="pattern" type="SCHPatternIden"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="pattern-segments" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="15000">
                <xs:element name="pattern-segment" type="SCHPatternSegmentIden"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="stoppoint-intervals" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="15000">
                <xs:element name="stoppoint-interval" type="SCHStoppointPair"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
```

```
        <xs:element name="timepoint-intervals" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="timepoint-interval" type="SCHTimepointInterval"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchRunningTimeList-->
<xs:element name="schRunningTimeList" type="SchRunningTimeList"/>
<xs:complexType name="SchRunningTimeList">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="patternVersion" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="pattern-eff" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="patterns" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="pattern" type="SCHPatternIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="pattern-segments" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="pattern-segment" type="SCHPatternSegmentIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="stoppoint-intervals" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="stoppoint-interval" type="SCHStoppointPair"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="timepoint-intervals" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="timepoint-interval" type="SCHTimepointInterval"/>
                </xs:sequence>
```

```
            </xs:complexType>
        </xs:element>
        <xs:element name="running-times">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="running-time" type="SCHRunningTimeEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptEmployeeListSub-->
<xs:element name="cptEmployeeListSub" type="CptEmployeeListSub"/>
<xs:complexType name="CptEmployeeListSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="updates-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="include-employees" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="include-employee" type="CPTEmployeeIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="facilities" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="facilitie" type="CPTTransitFacilityIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="organizations" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="organization" type="CPTOrganizationalUnitIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="categories" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="300">
                    <xs:element name="categorie" type="CPT-EmplJobCat"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptEmployeeList-->
```

```
<xs:element name="cptEmployeeList" type="CptEmployeeList"/>
<xs:complexType name="CptEmployeeList">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="updates-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="include-employees" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="include-employee" type="CPTEmployeeIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="facilities" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="facilitie" type="CPTTransitFacilityIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="organizations" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="organization" type="CPTOrganizationalUnitIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="categories" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="300">
                    <xs:element name="categorie" type="CPT-EmplJobCat"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="employees" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="employee" type="CPTEmployee"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-employees" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="deleted-employee" type="CPT-EmployeeID"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
```

```
<!-- Message CptTransferClusterListSub-->
<xs:element name="cptTransferClusterListSub" type="CptTransferClusterListSub"/>
<xs:complexType name="CptTransferClusterListSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="stoppoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stoppoint" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="updated-since" type="CPT-DateTime" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CptTransferClusterList-->
<xs:element name="cptTransferClusterList" type="CptTransferClusterList"/>
<xs:complexType name="CptTransferClusterList">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="stoppoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="stoppoint" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="updated-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="clusters">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="cluster" type="CPTTransferCluster"/>
                </xs:sequence>
            </xs:complexType>
```

```
        </xs:element>
        <xs:element name="deleted-clusters" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="deleted-cluster" type="CPTTransferClusterIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchReportValidationErrorsAck-->
<xs:element name="schReportValidationErrorsAck" type="SchReportValidationErrorsAck"/>
<xs:complexType name="SchReportValidationErrorsAck">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="originator" type="CPT-ApplicationID"/>
        <xs:element name="version-used" type="SCHRouteVersion"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchReportValidationErrors-->
<xs:element name="schReportValidationErrors" type="SchReportValidationErrors"/>
<xs:complexType name="SchReportValidationErrors">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="originator" type="CPT-ApplicationID"/>
        <xs:element name="version-used" type="SCHRouteVersion"/>
        <xs:element name="time-failed" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="found-errors">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="300">
                    <xs:element name="found-error" type="SCHValidationError"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message TspPRGInputsCC-->
<xs:element name="tspPRGInputsCC" type="TspPRGInputsCC"/>
<xs:complexType name="TspPRGInputsCC">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="date-time" type="CPT-DateTime"/>
        <xs:element name="intersections">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="intersection" type="CPTIntersectionIden"/>
```

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                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="PRGinputs">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="PRGinput" type="TSPPRGInputsCCEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message TspPRGInputsCCSub-->
<xs:element name="tspPRGInputsCCSub" type="TspPRGInputsCCSub"/>
<xs:complexType name="TspPRGInputsCCSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="intersections">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="intersection" type="CPTIntersectionIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message TspPRGInputsPTV-->
<xs:element name="tspPRGInputsPTV" type="TspPRGInputsPTV"/>
<xs:complexType name="TspPRGInputsPTV">
    <xs:sequence>
        <xs:element name="vehicleID" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="currentStatus" type="TSPStatus"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message TspBusinessRules-->
<xs:element name="tspBusinessRules" type="TspBusinessRules"/>
<xs:complexType name="TspBusinessRules">
    <xs:sequence>
        <xs:element name="fileHeader" type="CPTLoadFileHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="schedules" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="schedule" type="TSPScheduleEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
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        <xs:element name="boundaries" minOccurs="0">
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                    <xs:element name="boundarie" type="TSPBoundaryEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="strategies" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="strategie" type="TSPStrategyEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="intersections" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="intersection" type="TSPIntersectionEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="type-fives" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="type-five" type="TSPScenario5Intersection"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-boundaries" minOccurs="0">
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                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-intersections" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="deleted-intersection" type="CPTIntersectionIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="localTspBusinessRules" type="local:TspBusinessRules" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcWorkOrderUpdate-->
<xs:element name="ccWorkOrderUpdate" type="CcWorkOrderUpdate"/>
<xs:complexType name="CcWorkOrderUpdate">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
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        <xs:element name="assignee" type="CPTEmployeeIden"/>
        <xs:element name="update-time" type="CPT-DateTime"/>
        <xs:element name="work-order" type="CCWorkOrder"/>
        <xs:element name="localCcWorkOrderUpdate" type="local:CcWorkOrderUpdate" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiReportFoundItemsAck-->
<xs:element name="piReportFoundItemsAck" type="PiReportFoundItemsAck"/>
<xs:complexType name="PiReportFoundItemsAck">
    <xs:sequence>
        <xs:element name="report-time" type="CPT-DateTime"/>
        <xs:element name="report-ids">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="report-id" type="PI-LostFoundItemID"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message PiReportFoundItems-->
<xs:element name="piReportFoundItems" type="PiReportFoundItems"/>
<xs:complexType name="PiReportFoundItems">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="time-sent" type="CPT-DateTime"/>
        <xs:element name="reports">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="report" type="PIFoundItem"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchPushRunningTimes-->
<xs:element name="schPushRunningTimes" type="SchPushRunningTimes"/>
<xs:complexType name="SchPushRunningTimes">
    <xs:sequence>
        <xs:element name="push-header" type="CPTPushHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="running-times">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="running-time" type="SCHRunningTimeEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
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    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchCalendarFile-->
<xs:element name="schCalendarFile" type="SchCalendarFile"/>
<xs:complexType name="SchCalendarFile">
    <xs:sequence>
        <xs:element name="fileHeader" type="CPTLoadFileHeader"/>
        <xs:element name="day-definitions">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="400">
                    <xs:element name="day-definition" type="SCHCalendarEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchCalendar-->
<xs:element name="schCalendar" type="SchCalendar"/>
<xs:complexType name="SchCalendar">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="begin-date" type="CPT-Date"/>
        <xs:element name="end-date" type="CPT-Date"/>
        <xs:element name="day-definitions">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="400">
                    <xs:element name="day-definition" type="SCHCalendarEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchCalendarSub-->
<xs:element name="schCalendarSub" type="SchCalendarSub"/>
<xs:complexType name="SchCalendarSub">
    <xs:sequence>
        <xs:element name="subscriptionInfo" type="CPTSubscriptionHeader"/>
        <xs:element name="begin-date" type="CPT-Date"/>
        <xs:element name="end-date" type="CPT-Date"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchPushCalendar-->
<xs:element name="schPushCalendar" type="SchPushCalendar"/>
<xs:complexType name="SchPushCalendar">
    <xs:sequence>
        <xs:element name="push-header" type="CPTPushHeader"/>
        <xs:element name="day-definitions">
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            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="400">
                    <xs:element name="day-definition" type="SCHCalendarEntry"/>
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            </xs:complexType>
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    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchPushTimepoints-->
<xs:element name="schPushTimepoints" type="SchPushTimepoints"/>
<xs:complexType name="SchPushTimepoints">
    <xs:sequence>
        <xs:element name="push-header" type="CPTPushHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="timepoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="timepoint" type="SCHTimepointInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-timepoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="deleted-timepoint" type="SCHTimepointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchPushPatterns-->
<xs:element name="schPushPatterns" type="SchPushPatterns"/>
<xs:complexType name="SchPushPatterns">
    <xs:sequence>
        <xs:element name="push-header" type="CPTPushHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="stoppointVersion" type="CPT-StoppointVersion" minOccurs="0"/>
        <xs:element name="stoppointEffective" type="CPT-DateTime"/>
        <xs:element name="timepointVersion" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="timepointEffective" type="CPT-DateTime"/>
        <xs:element name="patterns" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="2000">
                    <xs:element name="pattern" type="SCHPatternInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="segments" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="segment" type="SCHPatternSegment"/>
                </xs:sequence>
            </xs:complexType>
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        <xs:element name="notes" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="5000">
                    <xs:element name="note" type="SCHNoteInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-patterns" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="2000">
                    <xs:element name="deleted-pattern" type="SCHPatternIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-segments" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="deleted-segment" type="SCHPatternSegmentIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="consistChanges" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="20000">
                    <xs:element name="consistChange" type="SCHConsistChangeEvent"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="radio-zones" minOccurs="0">
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                    <xs:element name="radio-zone" type="CPTRadioZone"/>
                </xs:sequence>
            </xs:complexType>
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    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchPushVehicleAssignments-->
<xs:element name="schPushVehicleAssignments" type="SchPushVehicleAssignments"/>
<xs:complexType name="SchPushVehicleAssignments">
    <xs:sequence>
        <xs:element name="push-header" type="CPTPushHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="assignments" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="assignment" type="SCHVehicleAssignment"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-assignments" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="deleted-assignment" type="SCHVehicleAssignment"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message SchPushOperatorAssignments-->
<xs:element name="schPushOperatorAssignments" type="SchPushOperatorAssignments"/>
<xs:complexType name="SchPushOperatorAssignments">
    <xs:sequence>
        <xs:element name="push-header" type="CPTPushHeader"/>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="assignments" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="assignment" type="SCHOperatorAssignment"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="deleted-assignments" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="deleted-assignment" type="SCHOperatorAssignment"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcCancelTrips-->
<xs:element name="ccCancelTrips" type="CcCancelTrips"/>
<xs:complexType name="CcCancelTrips">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="time-cancelled" type="CPT-DateTime"/>
        <xs:element name="cancel-records">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="cancel-record" type="CCTripCancellationRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
```

```
        <xs:element name="localCcCancelTrips" type="local:CcCancelTrips" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcConnProtAppr-->
<xs:element name="ccConnProtAppr" type="CcConnProtAppr"/>
<xs:complexType name="CcConnProtAppr">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="requester-id" type="CC-TravelerRequestID"/>
        <xs:element name="requester-time" type="CPT-DateTime"/>
        <xs:element name="requester-vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="requester-route" type="SCHRouteIden"/>
        <xs:element name="requester-route-direction" type="lrms:Direction" minOccurs="0"/>
        <xs:element name="to-route-direction" type="lrms:Direction" minOccurs="0"/>
        <xs:element name="to-route" type="SCHRouteIden"/>
        <xs:element name="to-stoppoint" type="CPTStoppointIden"/>
        <xs:element name="requester-eta-at-stoppoint" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="requester-wheelchair" type="CPT-Boolean"/>
        <xs:element name="central-id" type="CC-TravelerRequestID"/>
        <xs:element name="wait-until" type="CPT-DateTime"/>
        <xs:element name="waiter-PTV" type="CPTVehicleIden"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcConnProtAck-->
<xs:element name="ccConnProtAck" type="CcConnProtAck"/>
<xs:complexType name="CcConnProtAck">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="requester-id" type="CC-TravelerRequestID"/>
        <xs:element name="requester-time" type="CPT-DateTime"/>
        <xs:element name="requester-vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="requester-route" type="SCHRouteIden"/>
        <xs:element name="requester-route-direction" type="lrms:Direction" minOccurs="0"/>
        <xs:element name="to-route-direction" type="lrms:Direction" minOccurs="0"/>
        <xs:element name="to-route" type="SCHRouteIden"/>
        <xs:element name="to-stoppoint" type="CPTStoppointIden"/>
        <xs:element name="requester-eta-at-stoppoint" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="requester-wheelchair" type="CPT-Boolean"/>
        <xs:element name="central-id" type="CC-TravelerRequestID"/>
        <xs:element name="wait-until" type="CPT-DateTime"/>
        <xs:element name="waiter-PTV" type="CPTVehicleIden"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcConnProtWait-->
<xs:element name="ccConnProtWait" type="CcConnProtWait"/>
<xs:complexType name="CcConnProtWait">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
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        <xs:element name="requester-id" type="CC-TravelerRequestID"/>
        <xs:element name="requester-time" type="CPT-DateTime"/>
        <xs:element name="requester-vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="requester-route" type="SCHRouteIden"/>
        <xs:element name="requester-route-direction" type="lrms:Direction" minOccurs="0"/>
        <xs:element name="to-route-direction" type="lrms:Direction" minOccurs="0"/>
        <xs:element name="to-route" type="SCHRouteIden"/>
        <xs:element name="to-stoppoint" type="CPTStoppointIden"/>
        <xs:element name="requester-eta-at-stoppoint" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="requester-wheelchair" type="CPT-Boolean"/>
        <xs:element name="central-id" type="CC-TravelerRequestID"/>
        <xs:element name="wait-until" type="CPT-DateTime"/>
        <xs:element name="waiter-PTV" type="CPTVehicleIden"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcConnProtDeny-->
<xs:element name="ccConnProtDeny" type="CcConnProtDeny"/>
<xs:complexType name="CcConnProtDeny">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="requester-id" type="CC-TravelerRequestID"/>
        <xs:element name="requester-time" type="CPT-DateTime"/>
        <xs:element name="requester-vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="requester-route" type="SCHRouteIden"/>
        <xs:element name="requester-route-direction" type="lrms:Direction" minOccurs="0"/>
        <xs:element name="to-route-direction" type="lrms:Direction" minOccurs="0"/>
        <xs:element name="to-route" type="SCHRouteIden"/>
        <xs:element name="to-stoppoint" type="CPTStoppointIden"/>
        <xs:element name="requester-eta-at-stoppoint" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="requester-wheelchair" type="CPT-Boolean"/>
        <xs:element name="reason" type="CC-TravelerDenyReason" minOccurs="0"/>
    </xs:sequence>
    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Message CcConnProtReq-->
<xs:element name="ccConnProtReq" type="CcConnProtReq"/>
<xs:complexType name="CcConnProtReq">
    <xs:sequence>
        <xs:element name="languages" type="CPTLanguageList" minOccurs="0"/>
        <xs:element name="requester-id" type="CC-TravelerRequestID"/>
        <xs:element name="requester-time" type="CPT-DateTime"/>
        <xs:element name="requester-vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="requester-route" type="SCHRouteIden"/>
        <xs:element name="requester-route-direction" type="lrms:Direction" minOccurs="0"/>
        <xs:element name="to-route-direction" type="lrms:Direction" minOccurs="0"/>
        <xs:element name="to-route" type="SCHRouteIden"/>
        <xs:element name="to-stoppoint" type="CPTStoppointIden"/>
        <xs:element name="requester-eta-at-stoppoint" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="requester-wheelchair" type="CPT-Boolean"/>
    </xs:sequence>
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    <xs:attributeGroup ref="tcipMsgAttributes"/>
</xs:complexType>
<!-- Frame PISignIden-->
<xs:complexType name="PISignIden">
    <xs:sequence>
        <xs:element name="id" type="PI-SignID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CC-AnnouncementName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CC-AnnouncementDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCTakeIden-->
<xs:complexType name="CCTakeIden">
    <xs:sequence>
        <xs:element name="id" type="CC-CannedMsgTakeID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CC-AnnouncementName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CC-AnnouncementDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTStoppointAgreement-->
<xs:complexType name="CPTStoppointAgreement">
    <xs:sequence>
        <xs:element name="stopID" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="description" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="location" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="agreementID" type="CPTAgreementIden"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
        <xs:element name="agreementTextLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="descriptionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agreementText" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="agreementFilename" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="entranceId" type="CPTFacilityEntranceIden"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTStoppointEntrance-->
<xs:complexType name="CPTStoppointEntrance">
    <xs:sequence>
        <xs:element name="entranceID" type="CPTFacilityEntranceIden"/>
        <xs:element name="stopID" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
        <xs:element name="description" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="descriptionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
```

```
        <xs:element name="location" type="lrms:GeoLocation" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTConstructionPermit-->
<xs:complexType name="CPTConstructionPermit">
    <xs:sequence>
        <xs:element name="permitId" type="CPTConstructionPermitIden"/>
        <xs:element name="permitFilename" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="permitText" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="permitTextLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="comment" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="commentLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="location" type="lrms:GeoLocation" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTPhotographIden-->
<xs:complexType name="CPTPhotographIden">
    <xs:sequence>
        <xs:element name="id" type="CPT-PhotographID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CPT-PhotographName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTAgreementIden-->
<xs:complexType name="CPTAgreementIden">
    <xs:sequence>
        <xs:element name="id" type="CPT-AgreementID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CPT-AgreementName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTFacilityEntranceIden-->
<xs:complexType name="CPTFacilityEntranceIden">
    <xs:sequence>
        <xs:element name="id" type="CPT-FacilityEntranceID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CPT-FacilityEntranceName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
```

```
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTConstructionPermitIden-->
<xs:complexType name="CPTConstructionPermitIden">
    <xs:sequence>
        <xs:element name="id" type="CPT-ConstructionPermitID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CPT-ConstructionPermitName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIGateBayAssignment-->
<xs:complexType name="PIGateBayAssignment">
    <xs:sequence>
        <xs:element name="stoppoint" type="CPTStoppointIden"/>
        <xs:element name="trip" type="SCHTripIden" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="gate-bay" type="CPT-GenericCounter"/>
        <xs:element name="dest" type="CPT-Footnote" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCTrainDetectorIden-->
<xs:complexType name="CCTrainDetectorIden">
    <xs:sequence>
        <xs:element name="id" type="CPT-DetectorID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTOperatorIden-->
<xs:complexType name="CPTOperatorIden">
    <xs:sequence>
        <xs:element name="id" type="CPT-OperatorID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="IM-PersonIdentifier" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="ssn" type="CPT-SSN" minOccurs="0"/>
```

```
        <xs:element name="firstName" type="CPT-PersonFirstName" minOccurs="0"/>
        <xs:element name="firstNameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="middleName" type="CPT-PersonMiddleName" minOccurs="0"/>
        <xs:element name="middleNameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="lastName" type="CPT-PersonLastName" minOccurs="0"/>
        <xs:element name="lastNameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="userLoginName" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="employee-id" type="CPT-EmployeeID" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHRosterIden-->
<xs:complexType name="SCHRosterIden">
    <xs:sequence>
        <xs:element name="id" type="SCH-RosterID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="SCH-RosterDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHEventChange-->
<xs:complexType name="SCHEventChange">
    <xs:sequence>
        <xs:element name="events" type="SCHEvent"/>
        <xs:element name="patterns" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="2000">
                    <xs:element name="pattern" type="SCHPatternIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="segments" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="2000">
                    <xs:element name="segment" type="SCHPatternSegmentIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="trips" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25000">
                    <xs:element name="trip" type="SCHTripIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHEventIden-->
```

```
<xs:complexType name="SCHEventIden">
    <xs:sequence>
        <xs:element name="id" type="SCH-EventID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesiglangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCTrainDefect-->
<xs:complexType name="CCTrainDefect">
    <xs:sequence>
        <xs:element name="time" type="CPT-DateTime"/>
        <xs:element name="detectorID" type="CCTrainDetectorIden"/>
        <xs:element name="defectType" type="CC-TrainDefectType"/>
        <xs:element name="axleSequence" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="carSequence" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="trainID" type="CPTTrainIden" minOccurs="0"/>
        <xs:element name="carID" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="tempF" type="CPT-GenericCounter" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHConsistChangeEvent-->
<xs:complexType name="SCHConsistChangeEvent">
    <xs:sequence>
        <xs:element name="actID" type="SCHActivationIden" minOccurs="0"/>
        <xs:element name="trainID" type="CPTTrainIden" minOccurs="0"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
        <xs:element name="changeTypes" type="SCH-ConsistChangeType"/>
        <xs:element name="addCarCount" type="CPT-GenericCounter"/>
        <xs:element name="cutCarCount" type="CPT-GenericCounter"/>
        <xs:element name="addCarIDs" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="cutCarIDs" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="40">
                    <xs:element name="cutCarID" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="consistBefore" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="40">
                    <xs:element name="consistBefore-item" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="consistAfter" minOccurs="0">
            <xs:complexType>
```

```
                <xs:sequence minOccurs="1" maxOccurs="40">
                    <xs:element name="consistAfter-item" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="location" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="time" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="schTime" type="SCH-Time" minOccurs="0"/>
        <xs:element name="timepoint" type="SCHTimepointIden" minOccurs="0"/>
        <xs:element name="note" type="SCHNoteIden" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTTrainIden-->
<xs:complexType name="CPTTrainIden">
    <xs:sequence>
        <xs:element name="id" type="CPT-TrainID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTTransmissionIden-->
<xs:complexType name="CPTTransmissionIden">
    <xs:sequence>
        <xs:element name="id" type="CPT-TransmissionID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLang" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="serNum" type="CPT-Footnote" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTEngineIden-->
<xs:complexType name="CPTEngineIden">
    <xs:sequence>
        <xs:element name="id" type="CPT-EngineID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLang" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="serNum" type="CPT-Footnote" minOccurs="0"/>
```

```
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTAirConditionerIden-->
<xs:complexType name="CPTAirConditionerIden">
    <xs:sequence>
        <xs:element name="id" type="CPT-AirConditionerID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="serNum" type="CPT-Footnote" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTTruckIden-->
<xs:complexType name="CPTTruckIden">
    <xs:sequence>
        <xs:element name="id" type="CPT-TruckID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHAffectedStop-->
<xs:complexType name="SCHAffectedStop">
    <xs:sequence>
        <xs:element name="stopTime" type="SCH-Time" minOccurs="0"/>
        <xs:element name="stopID" type="CPTStoppointIden"/>
        <xs:element name="tripID" type="SCHTripIden" minOccurs="0"/>
        <xs:element name="routeID" type="SCHRouteIden" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHRosterDayEntry-->
<xs:complexType name="SCHRosterDayEntry">
    <xs:sequence>
        <xs:element name="run" type="SCHRunIden" minOccurs="0"/>
        <xs:element name="day" type="CPT-DayofWeek"/>
        <xs:element name="expected-pays" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25">
                    <xs:element name="expected-pay" type="SCHOperatorPay"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="identifier" type="SCHRosterIden" minOccurs="0"/>
```

```
        <xs:element name="extraBoard" type="CPT-Boolean"/>
        <xs:element name="localSCHRosterDayEntry" type="local:SCHRosterDayEntry" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIGTFSCalendarDates-->
<xs:complexType name="PIGTFSCalendarDates">
    <xs:sequence>
        <xs:element name="serviceType" type="CPT-GenericCounter"/>
        <xs:element name="date" type="CPT-Date"/>
        <xs:element name="exception_type" type="CPT-GenericCounter"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIGTFSCalendar-->
<xs:complexType name="PIGTFSCalendar">
    <xs:sequence>
        <xs:element name="serviceType" type="SCH-DayType"/>
        <xs:element name="monday" type="CPT-Boolean"/>
        <xs:element name="tuesday" type="CPT-Boolean"/>
        <xs:element name="saturday" type="CPT-Boolean"/>
        <xs:element name="sunday" type="CPT-Boolean"/>
        <xs:element name="start_date" type="CPT-Date"/>
        <xs:element name="end_date" type="CPT-Date"/>
        <xs:element name="wednesday" type="CPT-Boolean"/>
        <xs:element name="thursday" type="CPT-Boolean"/>
        <xs:element name="friday" type="CPT-Boolean"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIGTFSStopTimes-->
<xs:complexType name="PIGTFSStopTimes">
    <xs:sequence>
        <xs:element name="tripdesignator" type="SCH-TripDesignator"/>
        <xs:element name="arrival_time" type="CPT-Time"/>
        <xs:element name="departure_time" type="CPT-Time"/>
        <xs:element name="stop_designator" type="CPT-StoppointDesignator"/>
        <xs:element name="stop_sequence" type="CPT-GenericCounter"/>
        <xs:element name="stop_headsign" type="CC-DestinationSignDesignator" minOccurs="0"/>
        <xs:element name="pick_up_type" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="drop_off_type" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="shape_dist_traveled" type="PI-GTFSNormalizedDistance" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIGTFSTrips-->
<xs:complexType name="PIGTFSTrips">
    <xs:sequence>
        <xs:element name="route_designator" type="SCH-RouteDesignator"/>
        <xs:element name="serviceType" type="CPT-GenericCounter"/>
        <xs:element name="trip_designator" type="SCH-TripDesignator"/>
        <xs:element name="trip_headsign" type="PI-DMSMessage" minOccurs="0"/>
        <xs:element name="trip_short_name" type="SCH-TripTypeDescription" minOccurs="0"/>
        <xs:element name="route_direction" type="SCH-RouteDirectionName" minOccurs="0"/>
        <xs:element name="block_id" type="SCH-BlockID" minOccurs="0"/>
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        <xs:element name="shape_designator" type="CPT-Footnote" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIGTFSRoutes-->
<xs:complexType name="PIGTFSRoutes">
    <xs:sequence>
        <xs:element name="route_designator" type="SCH-RouteDesignator"/>
        <xs:element name="agencydesignator" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="route_short_name" type="CPT-GenericName"/>
        <xs:element name="route_long_name" type="CPT-Footnote"/>
        <xs:element name="route_desc" type="PI-GTFSRouteDesc" minOccurs="0"/>
        <xs:element name="route_type" type="CPT-GenericCounter"/>
        <xs:element name="route_url" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="route_color" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="route_text_color" type="CPT-GenericName" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIGTFSStops-->
<xs:complexType name="PIGTFSStops">
    <xs:sequence>
        <xs:element name="stop_designator" type="CPT-StoppointDesignator"/>
        <xs:element name="stop_code" type="CPT-StoppointDesignator" minOccurs="0"/>
        <xs:element name="stop_name" type="CPT-StoppointName"/>
        <xs:element name="stop_lon" type="PI-GTFSLongitude"/>
        <xs:element name="stop_lat" type="PI-GTFSLatitude"/>
        <xs:element name="zone_name" type="PI-GeoZoneName" minOccurs="0"/>
        <xs:element name="stop_url" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="location_type" type="CPT-Boolean" minOccurs="0"/>
        <xs:element name="parent_station" type="CPT-StoppointID" minOccurs="0"/>
        <xs:element name="stop_desc" type="CPT-Footnote"/>
        <xs:element name="stop_timezone" type="PI-GTFSTimeZone" minOccurs="0"/>
        <xs:element name="wheelchair_boarding" type="CPT-GenericCounter" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIGTFSAgency-->
<xs:complexType name="PIGTFSAgency">
    <xs:sequence>
        <xs:element name="agency_designator" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agency_name" type="CPT-AgencyName"/>
        <xs:element name="agency_url" type="CPT-Footnote"/>
        <xs:element name="agency_timezone" type="PI-GTFSTimeZone"/>
        <xs:element name="agency_phone" type="CPT-PhoneNumber" minOccurs="0"/>
        <xs:element name="agency_fare_url" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="agency-lang" type="CPT-LanguageIdentifier" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame OBParameterID-->
<xs:complexType name="OBParameterID">
    <xs:sequence>
        <xs:element name="pid" type="OB-PID" minOccurs="0"/>
        <xs:element name="spn" type="OB-SPN" minOccurs="0"/>
```

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        <xs:element name="pgn" type="OB-PGN" minOccurs="0"/>
        <xs:element name="footnote" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="footnoteLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTAdditionalLanguageContents-->
<xs:complexType name="CPTAdditionalLanguageContents">
    <xs:sequence>
        <xs:element name="addlLangs">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="addlLang" type="CPT-AddlLanguageContent"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCPTVTripData-->
<xs:complexType name="CCPTVTripData">
    <xs:sequence>
        <xs:element name="operator" type="CPTOperatorIden"/>
        <xs:element name="operator2" type="CPTOperatorIden" minOccurs="0"/>
        <xs:element name="pattern-Version" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="timepoint-Version" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="pattern" type="SCHPatternIden" minOccurs="0"/>
        <xs:element name="start-Time" type="SCH-Time"/>
        <xs:element name="end-Time" type="SCH-Time"/>
        <xs:element name="start-Location" type="lrms:GeoLocation"/>
        <xs:element name="end-Location" type="lrms:GeoLocation"/>
        <xs:element name="timepoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="timepoint" type="lrms:GeoLocation"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="timepoint-times" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="timepoint-time" type="SCH-Time"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="trip" type="SCHTripIden"/>
        <xs:element name="operator-Change" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="events" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="event" type="SCHEvent"/>
                </xs:sequence>
            </xs:complexType>
```

```
        </xs:element>
        <xs:element name="notes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="note" type="SCHNoteInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="operating-Time-Type" type="SCH-OperatingTimeType" minOccurs="0"/>
        <xs:element name="trip-type" type="SCH-TripType" minOccurs="0"/>
        <xs:element name="service-type" type="SCH-ServiceType" minOccurs="0"/>
        <xs:element name="runExceptions" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="runException" type="SCH-ExceptionID"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="noRunExceptions" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="noRunException" type="SCH-ExceptionID"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPInteriorFeature-->
<xs:complexType name="SPInteriorFeature">
    <xs:sequence>
        <xs:element name="featureID" type="SPFeatureIden"/>
        <xs:element name="feature-type" type="SP-InteriorFeatureType"/>
        <xs:element name="feature-location" type="SPInteriorLocation"/>
        <xs:element name="localSPInteriorFeature" type="local:SPInteriorFeature" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPFeature-->
<xs:complexType name="SPFeature">
    <xs:sequence>
        <xs:element name="featureID" type="SPFeatureIden"/>
        <xs:element name="feature-type" type="CPT-FeatureType"/>
        <xs:element name="landmark-type" type="PI-LandmarkType" minOccurs="0"/>
        <xs:element name="metadata" type="CPTRowMetaData"/>
        <xs:element name="association" type="CPTGenericIden" minOccurs="0"/>
        <xs:element name="default-color" type="CPT-Color"/>
        <xs:element name="highlight-color" type="CPT-Color" minOccurs="0"/>
        <xs:element name="geometry" type="SPFeatureGeometry"/>
        <xs:element name="label" type="SP-FeatureLabel" minOccurs="0"/>
        <xs:element name="localSPFeature" type="local:SPFeature" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
```

```
<!-- Frame PIGTFSFeedInfo-->
<xs:complexType name="PIGTFSFeedInfo">
    <xs:sequence>
        <xs:element name="feed_publisher_name" type="CPT-CompanyName"/>
        <xs:element name="feed_publisher_url" type="CPT-Footnote"/>
        <xs:element name="feed_language" type="CPT-Footnote"/>
        <xs:element name="feed_start_date" type="CPT-Date" minOccurs="0"/>
        <xs:element name="feed_end_date" type="CPT-Date" minOccurs="0"/>
        <xs:element name="feed_version" type="CPT-Footnote" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIGTFSTransfers-->
<xs:complexType name="PIGTFSTransfers">
    <xs:sequence>
        <xs:element name="from_stop_designator" type="CPT-StoppointDesignator"/>
        <xs:element name="to_stop_designator" type="CPT-StoppointDesignator"/>
        <xs:element name="transfer" type="CPT-GenericCounter"/>
        <xs:element name="min_transfer_time_secs" type="CPT-Duration" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIGTFSFrequencies-->
<xs:complexType name="PIGTFSFrequencies">
    <xs:sequence>
        <xs:element name="trip_designator" type="SCH-TripDesignator"/>
        <xs:element name="start_time" type="CPT-Time"/>
        <xs:element name="end_time" type="CPT-Time"/>
        <xs:element name="headway_secs" type="CPT-Duration"/>
        <xs:element name="exact_times" type="CPT-Boolean" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIGTFSShapes-->
<xs:complexType name="PIGTFSShapes">
    <xs:sequence>
        <xs:element name="shape_designator" type="lrms:Text-name255" minOccurs="0"/>
        <xs:element name="shape_pt_lon" type="CPT-Footnote"/>
        <xs:element name="shape_pt_lat" type="CPT-Footnote"/>
        <xs:element name="shape_pt_sequence" type="CPT-GenericCounter"/>
        <xs:element name="shape_dist_traveled" type="lrms:Distance" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIGTFSFareRules-->
<xs:complexType name="PIGTFSFareRules">
    <xs:sequence>
        <xs:element name="fare-designator" type="CPT-Footnote"/>
        <xs:element name="route-designator" type="SCH-RouteDesignator"/>
        <xs:element name="origin-designator" type="PI-GeoZoneName" minOccurs="0"/>
        <xs:element name="destination-designator" type="PI-GeoZoneName" minOccurs="0"/>
        <xs:element name="contains-designator" type="PI-GeoZoneName" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIGTFSFareAttributes-->
```

```
<xs:complexType name="PIGTFSFareAttributes">
    <xs:sequence>
        <xs:element name="fare-designator" type="CPT-Footnote"/>
        <xs:element name="fare" type="FC-FareCost"/>
        <xs:element name="currencytype" type="FC-MonetaryInstrAuth"/>
        <xs:element name="paymentmethod" type="CPT-Boolean"/>
        <xs:element name="transfer" type="PIGTFSTransfers"/>
        <xs:element name="transfer-duration" type="CPT-Duration" minOccurs="0"/>
        <xs:element name="route_id" type="SCH-RouteID"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCJ1939FaultCode-->
<xs:complexType name="CCJ1939FaultCode">
    <xs:sequence>
        <xs:element name="dtc" type="CC-J1939DiagnosticTroubleCode"/>
        <xs:element name="active" type="CPT-Boolean"/>
        <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHCalendarException-->
<xs:complexType name="SCHCalendarException">
    <xs:sequence>
        <xs:element name="exceptionID" type="SCH-ExceptionID"/>
        <xs:element name="exceptionName" type="SCH-ExceptionName" minOccurs="0"/>
        <xs:element name="exceptionNameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCRouteWelcomeAnnouncement-->
<xs:complexType name="CCRouteWelcomeAnnouncement">
    <xs:sequence>
        <xs:element name="pattern" type="SCHPatternIden"/>
        <xs:element name="audio-filename" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="sign-filename" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIPatternServiceEntry-->
<xs:complexType name="PIPatternServiceEntry">
    <xs:sequence>
        <xs:element name="vehicleID" type="CPTVehicleIden"/>
        <xs:element name="patternID" type="SCHPatternIden"/>
        <xs:element name="location" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="distance" type="lrms:Distance" minOccurs="0"/>
        <xs:element name="scheduleStatus" type="OB-ScheduleAdherenceOffset" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPIntDirection-->
<xs:complexType name="SPIntDirection">
    <xs:sequence>
        <xs:element name="from" type="SPInteriorLocation" minOccurs="0"/>
        <xs:element name="to" type="SPInteriorLocation" minOccurs="0"/>
```

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        <xs:element name="instruction" type="atis:ManeuverInstruction" minOccurs="0"/>
        <xs:element name="text" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="textLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="images" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10">
                    <xs:element name="image" type="PI-BinaryImageData"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="image-format" type="PI-GraphicFormat" minOccurs="0"/>
        <xs:element name="video-format" type="PI-GraphicFormat" minOccurs="0"/>
        <xs:element name="frames">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="5">
                    <xs:element name="frame" type="PI-BinaryVideoData"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPInteriorLocation-->
<xs:complexType name="SPInteriorLocation">
    <xs:sequence>
        <xs:element name="name" type="SP-FeatureName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="building" type="SP-BuildingIdentifier" minOccurs="0"/>
        <xs:element name="room" type="SP-RoomIdentifier" minOccurs="0"/>
        <xs:element name="facility" type="CPTTransitFacilityIden" minOccurs="0"/>
        <xs:element name="point-geolocation" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="polygon-location" type="SPPolygon" minOccurs="0"/>
        <xs:element name="buildingcornerlocation" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="offsetEast" type="lrms:Distance" minOccurs="0"/>
        <xs:element name="offsetNorth" type="lrms:Distance" minOccurs="0"/>
        <xs:element name="grid-reference" type="SP-IndoorGridIdentifier" minOccurs="0"/>
        <xs:element name="address" type="lrms:AddressPoint" minOccurs="0"/>
        <xs:element name="static-sign-text" type="PI-StaticSignMessage" minOccurs="0"/>
        <xs:element name="static-sign-textLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="level" type="lrms:VerticalLevel" minOccurs="0"/>
        <xs:element name="location-images" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10">
                    <xs:element name="location-image" type="PI-BinaryImageData"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="image-format" type="PI-GraphicFormat" minOccurs="0"/>
        <xs:element name="localSPInteriorLocation" type="local:SPInteriorLocation" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame OBParameterValue-->
```

```
<xs:complexType name="OBParameterValue">
    <xs:sequence>
        <xs:element name="numericValue" type="OB-ParameterNumericValue" minOccurs="0"/>
        <xs:element name="stringValue" type="OB-ParameterStringValue" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIStopPatternPointEntry-->
<xs:complexType name="PIStopPatternPointEntry">
    <xs:sequence>
        <xs:element name="timeStopID" type="SCHTimeStoppoint"/>
        <xs:element name="patternDist" type="lrms:Distance"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPFeatureGeometry-->
<xs:complexType name="SPFeatureGeometry">
    <xs:sequence>
        <xs:element name="point" type="SPPoint" minOccurs="0"/>
        <xs:element name="linePoints">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="linePoint" type="SPPoint"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="polygon" type="SPPolygon"/>
        <xs:element name="fill" type="CPT-Boolean" minOccurs="0"/>
        <xs:element name="thickness" type="CPT-GenericCounter" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPScaleRange-->
<xs:complexType name="SPScaleRange">
    <xs:sequence>
        <xs:element name="zoom-in" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="zoom-out" type="CPT-GenericCounter" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPGISLayer-->
<xs:complexType name="SPGISLayer">
    <xs:sequence>
        <xs:element name="feature-type" type="CPT-FeatureType"/>
        <xs:element name="landmark-type" type="PI-LandmarkType" minOccurs="0"/>
        <xs:element name="metadata" type="CPTRowMetaData"/>
        <xs:element name="scale-range" type="SPScaleRange" minOccurs="0"/>
        <xs:element name="symbols" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10">
                    <xs:element name="symbol" type="SPFeatureSymbol"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="localSPGISLayer" type="local:SPGISLayer" minOccurs="0"/>
```

```
    </xs:sequence>
</xs:complexType>
<!-- Frame CCCannedMsgTakeListIden-->
<xs:complexType name="CCCannedMsgTakeListIden">
    <xs:sequence>
        <xs:element name="id" type="CC-CannedMsgTakeListID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CC-AnnouncementName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CC-AnnouncementDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPFeatureIden-->
<xs:complexType name="SPFeatureIden">
    <xs:sequence>
        <xs:element name="id" type="SP-FeatureID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="SP-FeatureName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="SP-FeatureDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTRowMetaData-->
<xs:complexType name="CPTRowMetaData">
    <xs:sequence>
        <xs:element name="versionID" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="created" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="effective" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="expiration" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="activation" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="deactivation" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="updated" type="CPT-DateTime"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTPhotograph-->
<xs:complexType name="CPTPhotograph">
    <xs:sequence>
        <xs:element name="format" type="PI-GraphicFormat"/>
        <xs:element name="photo" type="PI-BinaryImageData"/>
        <xs:element name="photoID" type="CPTPhotographIden"/>
        <xs:element name="filename" type="CPT-Footnote"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCDestinationMessageIden-->
```

```
<xs:complexType name="CCDestinationMessageIden">
    <xs:sequence>
        <xs:element name="id" type="CC-DestinationMessageID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="desig" type="CC-DestinationSignDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="name" type="CC-DestinationSignName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCAnnouncementIden-->
<xs:complexType name="CCAnnouncementIden">
    <xs:sequence>
        <xs:element name="id" type="CC-AnnouncementMsgID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CC-AnnouncementName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CC-AnnouncementDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHActivationIden-->
<xs:complexType name="SCHActivationIden">
    <xs:sequence>
        <xs:element name="id" type="SCH-ActivationID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="SCH-ActivationName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="SCH-ActivationDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIServiceDelayed-->
<xs:complexType name="PIServiceDelayed">
    <xs:sequence>
        <xs:element name="route" type="SCHRouteIden"/>
        <xs:element name="direction" type="SCH-RouteDirectionName"/>
        <xs:element name="directionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="suspended" type="CPT-Boolean"/>
        <xs:element name="start-location" type="SCHTimeStoppoint" minOccurs="0"/>
        <xs:element name="end-location" type="SCHTimeStoppoint" minOccurs="0"/>
        <xs:element name="start-time" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="end-time" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="delay" type="CPT-Duration" minOccurs="0"/>
        <xs:element name="remarks" type="CPT-Footnote" minOccurs="0"/>
```

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        <xs:element name="remarksLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="localPIServiceDelayed" type="local:PIServiceDelayed" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIPTVDelayed-->
<xs:complexType name="PIPTVDelayed">
    <xs:sequence>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="trip" type="SCHTripIden"/>
        <xs:element name="route" type="SCHRouteIden"/>
        <xs:element name="direction" type="SCH-RouteDirectionName" minOccurs="0"/>
        <xs:element name="directionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="delay" type="CPT-Duration"/>
        <xs:element name="remarks" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="remarksLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTLanguageList-->
<xs:complexType name="CPTLanguageList">
    <xs:sequence>
        <xs:element name="primaryLang" type="CPT-LanguageIdentifier"/>
        <xs:element name="addlLangs" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="addlLang" type="CPT-LanguageIdentifier"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCCannedMsgIden-->
<xs:complexType name="CCCannedMsgIden">
    <xs:sequence>
        <xs:element name="id" type="CC-CannedMsgID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CC-AnnouncementName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CC-AnnouncementDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHPatternSegmentIden-->
<xs:complexType name="SCHPatternSegmentIden">
    <xs:sequence>
        <xs:element name="id" type="SCH-PatternSegmentID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="SCH-PatternName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
```

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        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHBlockIden-->
<xs:complexType name="SCHBlockIden">
    <xs:sequence>
        <xs:element name="id" type="SCH-BlockID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="desig" type="SCH-BlockDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="name" type="SCH-BlockName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PITravelerIden-->
<xs:complexType name="PITravelerIden">
    <xs:sequence>
        <xs:element name="id" type="PI-TravelerID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="firstName" type="CPT-PersonFirstName" minOccurs="0"/>
        <xs:element name="firstNameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="middleName" type="CPT-PersonMiddleName" minOccurs="0"/>
        <xs:element name="middleNameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="lastName" type="CPT-PersonLastName" minOccurs="0"/>
        <xs:element name="lastNameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="name" type="IM-PersonIdentifier" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLang" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTParkingSpace-->
<xs:complexType name="CPTParkingSpace">
    <xs:sequence>
        <xs:element name="park-lot" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="park-level" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="park-row" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="park-column" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="park-space" type="CPT-GenericCounter" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCEventRecord-->
<xs:complexType name="CCEventRecord">
    <xs:sequence>
        <xs:element name="location" type="lrms:GeoLocation"/>
```

```
        <xs:element name="event-type" type="CC-ServiceEventType"/>
        <xs:element name="time" type="CPT-DateTime"/>
        <xs:element name="reporting-PTV" type="CPTVehicleIden"/>
        <xs:element name="reporting-operator" type="CPTOperatorIden"/>
        <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="associated-incident" type="IMIncidentIden" minOccurs="0"/>
        <xs:element name="text" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="textLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="localCCEventRecord" type="local:CCEventRecord" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame FCFarePolicyIden-->
<xs:complexType name="FCFarePolicyIden">
    <xs:sequence>
        <xs:element name="id" type="FC-FarePolicyID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="FC-FarePolicyName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTOperatorBaseIden-->
<xs:complexType name="CPTOperatorBaseIden">
    <xs:sequence>
        <xs:element name="id" type="CPT-OperatorBaseID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CPT-OperatorBaseName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTOrganizationalUnitIden-->
<xs:complexType name="CPTOrganizationalUnitIden">
    <xs:sequence>
        <xs:element name="id" type="CPT-OrgUnitID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CPT-OrgUnitName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTShelterIden-->
```

```
<xs:complexType name="CPTShelterIden">
    <xs:sequence>
        <xs:element name="id" type="CPT-ShelterID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CPT-ShelterName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTStoppointIden-->
<xs:complexType name="CPTStoppointIden">
    <xs:sequence>
        <xs:element name="id" type="CPT-StoppointID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CPT-StoppointName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-StoppointDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTTransferClusterIden-->
<xs:complexType name="CPTTransferClusterIden">
    <xs:sequence>
        <xs:element name="id" type="CPT-TransferClusterID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CPT-TransferClusterName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-StoppointDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTTransitFacilityIden-->
<xs:complexType name="CPTTransitFacilityIden">
    <xs:sequence>
        <xs:element name="id" type="CPT-TransitFacilityID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="CPT-TransitFacilityName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="baseName" type="CPT-PTVehicleBaseName" minOccurs="0"/>
        <xs:element name="baseNameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
```

```
    </xs:sequence>
</xs:complexType>
<!-- Frame PIAmenityIden-->
<xs:complexType name="PIAmenityIden">
    <xs:sequence>
        <xs:element name="id" type="PI-AmenityID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="PI-AmenityName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLang" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHRunIden-->
<xs:complexType name="SCHRunIden">
    <xs:sequence>
        <xs:element name="id" type="SCH-RunID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="name" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="SCH-RunDesignator" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHTimepointIden-->
<xs:complexType name="SCHTimepointIden">
    <xs:sequence>
        <xs:element name="id" type="SCH-TimepointID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="desig" type="SCH-TimepointDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="name" type="SCH-TimepointName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHRouteIden-->
<xs:complexType name="SCHRouteIden">
    <xs:sequence>
        <xs:element name="id" type="SCH-RouteID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="desig" type="SCH-RouteDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="name" type="SCH-RouteName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
```

```
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHTripIden-->
<xs:complexType name="SCHTripIden">
    <xs:sequence>
        <xs:element name="id" type="SCH-TripID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="desig" type="SCH-TripDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="name" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHNoteIden-->
<xs:complexType name="SCHNoteIden">
    <xs:sequence>
        <xs:element name="id" type="SCH-NoteID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="name" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="pointLatitude" type="lrms:Latitude" minOccurs="0"/>
        <xs:element name="pointLongitude" type="lrms:Longitude" minOccurs="0"/>
        <xs:element name="desig" type="SCH-NoteDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHPatternIden-->
<xs:complexType name="SCHPatternIden">
    <xs:sequence>
        <xs:element name="id" type="SCH-PatternID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="desig" type="SCH-PatternDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="name" type="SCH-PatternName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame TSPTmsIntersectionApproach-->
<xs:complexType name="TSPTmsIntersectionApproach">
    <xs:sequence>
        <xs:element name="approachID" type="TSP-ApproachID"/>
        <xs:element name="approachAngle" type="lrms:Angle"/>
        <xs:element name="departAngle" type="lrms:Angle"/>
        <xs:element name="travelPath" type="TSP-IntersectionPath"/>
```

```
            <xs:element name="stopBarLocation" type="lrms:GeoLocation" minOccurs="0"/>
            <xs:element name="requestBeginLocation" type="lrms:GeoLocation" minOccurs="0"/>
            <xs:element name="requestEndLocation" type="lrms:GeoLocation" minOccurs="0"/>
            <xs:element name="requestCancelLocation" type="lrms:GeoLocation" minOccurs="0"/>
            <xs:element name="allowedStrategies">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="10">
                        <xs:element name="allowedStrategie" type="SCP-PriorityStrategyNumber"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame TSPTmsIntersectionParam-->
    <xs:complexType name="TSPTmsIntersectionParam">
        <xs:sequence>
            <xs:element name="intersection" type="CPTIntersectionIden"/>
            <xs:element name="boundary" type="TSP-BoundaryID" minOccurs="0"/>
            <xs:element name="intersectionIP" type="CPT-IPAddress" minOccurs="0"/>
            <xs:element name="intersectionPort" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
            <xs:element name="intersectionModem" type="TSP-ModemPhoneNum" minOccurs="0"/>
            <xs:element name="intersectionDropAddr" type="TSP-DropAddr" minOccurs="0"/>
            <xs:element name="approaches" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="25">
                        <xs:element name="approache" type="TSPTmsIntersectionApproach"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame TSPPRGInputsCCEntry-->
    <xs:complexType name="TSPPRGInputsCCEntry">
        <xs:sequence>
            <xs:element name="status" type="TSPStatus"/>
            <xs:element name="vin" type="CPT-VIN"/>
            <xs:element name="block" type="SCHBlockIden"/>
            <xs:element name="intersectionParam" type="TSPTmsIntersectionParam"/>
            <xs:element name="localTSPPRGInputsCCEntry" type="local:TSPPRGInputsCCEntry"
minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame TSPStatus-->
    <xs:complexType name="TSPStatus">
        <xs:sequence>
            <xs:element name="scheduleDeviation" type="OB-ScheduleAdherenceOffset"/>
            <xs:element name="loc-lat" type="lrms:Latitude"/>
            <xs:element name="loc-lon" type="lrms:Longitude"/>
            <xs:element name="loc-dir" type="lrms:Angle"/>
            <xs:element name="loc-spd" type="OB-J1587-VelocityVectorSpeed"/>
            <xs:element name="loc-quality" type="SPDataQuality" minOccurs="0"/>
```

```
            <xs:element name="currentTime" type="CPT-DateTime"/>
            <xs:element name="doorStatusOpen" type="CPT-Boolean"/>
            <xs:element name="requestCancel" type="CPT-Boolean"/>
            <xs:element name="currentRoute" type="SCHRouteIden" minOccurs="0"/>
            <xs:element name="currentRun" type="SCHRunIden" minOccurs="0"/>
            <xs:element name="currentTrip" type="SCHTripIden" minOccurs="0"/>
            <xs:element name="currentOperator" type="CPTOperatorIden" minOccurs="0"/>
            <xs:element name="passengersOnboard" type="OB-J1587-PassengerCounterPatronCount"
minOccurs="0"/>
            <xs:element name="express" type="CPT-Boolean" minOccurs="0"/>
            <xs:element name="scheduleId" type="SCH-TimetableVersionID" minOccurs="0"/>
            <xs:element name="override" type="CPT-Boolean" minOccurs="0"/>
            <xs:element name="alert" type="CPT-Boolean" minOccurs="0"/>
            <xs:element name="stopRequested" type="CPT-Boolean" minOccurs="0"/>
            <xs:element name="localTSPStatus" type="local:TSPStatus" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame TSPBoundaryEntry-->
    <xs:complexType name="TSPBoundaryEntry">
        <xs:sequence>
            <xs:element name="boundaryID" type="TSP-BoundaryID"/>
            <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
            <xs:element name="boundaryPolygon" type="SPPolygon"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame TSPScheduleEntry-->
    <xs:complexType name="TSPScheduleEntry">
        <xs:sequence>
            <xs:element name="intersection" type="CPTIntersectionIden"/>
            <xs:element name="trips">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="5000">
                        <xs:element name="trip" type="SCHTripIden"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="times">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="5000">
                        <xs:element name="time" type="SCH-Time"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame TSPAllowedIntersection-->
    <xs:complexType name="TSPAllowedIntersection">
        <xs:sequence>
            <xs:element name="intersection" type="CPTIntersectionIden"/>
            <xs:element name="allowed-approaches" minOccurs="0">
                <xs:complexType>
```

```
                <xs:sequence minOccurs="1" maxOccurs="10">
                    <xs:element name="allowed-approache" type="TSP-ApproachID"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="boundaries" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10">
                    <xs:element name="boundarie" type="TSP-BoundaryID"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPFeatureSymbol-->
<xs:complexType name="SPFeatureSymbol">
    <xs:sequence>
        <xs:element name="scale-range" type="SPScaleRange" minOccurs="0"/>
        <xs:element name="geometric" type="SPGeometricSymbol" minOccurs="0"/>
        <xs:element name="default-image" type="PI-BinaryImageData" minOccurs="0"/>
        <xs:element name="highlight-image" type="PI-BinaryImageData" minOccurs="0"/>
        <xs:element name="format" type="PI-GraphicFormat" minOccurs="0"/>
        <xs:element name="label" type="SP-SymbolLabel" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPNoDimLine-->
<xs:complexType name="SPNoDimLine">
    <xs:sequence>
        <xs:element name="points">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="point" type="SPNoDimPoint"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPSymbolPart-->
<xs:complexType name="SPSymbolPart">
    <xs:sequence>
        <xs:element name="line" type="SPNoDimLine" minOccurs="0"/>
        <xs:element name="polygon" type="SPNoDimPolygon" minOccurs="0"/>
        <xs:element name="arc" type="SPNoDimArc" minOccurs="0"/>
        <xs:element name="circle" type="SPNoDimCircle" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPGeometricSymbol-->
<xs:complexType name="SPGeometricSymbol">
    <xs:sequence>
        <xs:element name="parts">
            <xs:complexType>
```

```
                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="part" type="SPSymbolPart"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="default-color" type="CPT-Color" minOccurs="0"/>
        <xs:element name="highlight-color" type="CPT-Color" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPNoDimCircle-->
<xs:complexType name="SPNoDimCircle">
    <xs:sequence>
        <xs:element name="center" type="SPNoDimPoint"/>
        <xs:element name="radius" type="SP-NoDimDist"/>
        <xs:element name="fill" type="CPT-Boolean"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPNoDimArc-->
<xs:complexType name="SPNoDimArc">
    <xs:sequence>
        <xs:element name="center" type="SPNoDimPoint"/>
        <xs:element name="radius" type="SP-NoDimDist"/>
        <xs:element name="from" type="lrms:Angle"/>
        <xs:element name="to" type="lrms:Angle"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPNoDimPolygon-->
<xs:complexType name="SPNoDimPolygon">
    <xs:sequence>
        <xs:element name="points">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="point" type="SPNoDimPoint"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="fill" type="CPT-Boolean"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPNoDimPoint-->
<xs:complexType name="SPNoDimPoint">
    <xs:sequence>
        <xs:element name="x" type="SP-NoDimCoord"/>
        <xs:element name="y" type="SP-NoDimCoord"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPStreetSeg-->
<xs:complexType name="SPStreetSeg">
    <xs:sequence>
        <xs:element name="segID" type="lrms:IdType"/>
        <xs:element name="node1" type="lrms:IdType"/>
```

```
        <xs:element name="node2" type="lrms:IdType"/>
        <xs:element name="direction" type="SP-OneWay" minOccurs="0"/>
        <xs:element name="feature" type="SPFeatureIden" minOccurs="0"/>
        <xs:element name="street" type="lrms:IdType"/>
        <xs:element name="addr1" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="addr2" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
        <xs:element name="localSPStreetSeg" type="local:SPStreetSeg" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCPullInReport-->
<xs:complexType name="CCPullInReport">
    <xs:sequence>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="pullin-time" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="pullin-trip" type="SCHTripIden" minOccurs="0"/>
        <xs:element name="pullin-location" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="schedPullInTime" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="parked-spot" type="CPTParkingSpace"/>
        <xs:element name="trainID" type="CPTTrainIden" minOccurs="0"/>
        <xs:element name="localCCPullInReport" type="local:CCPullInReport" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame FCSCObjectRecord-->
<xs:complexType name="FCSCObjectRecord">
    <xs:sequence>
        <xs:element name="cardID" type="FC-FareMediaID-nbr"/>
        <xs:element name="object-type" type="FC-SCObjectType"/>
        <xs:element name="object-data" type="FC-SCObjectCarrier"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame FCBoardingAlightingRecord-->
<xs:complexType name="FCBoardingAlightingRecord">
    <xs:sequence>
        <xs:element name="passenger-type" type="atis:TravelerClass" minOccurs="0"/>
        <xs:element name="date-time" type="CPT-DateTime"/>
        <xs:element name="location" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="boarding-count" type="OB-PassengerBoarding" minOccurs="0"/>
        <xs:element name="alighting-count" type="OB-PassengerAlighting" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame FCTransactionRecord-->
<xs:complexType name="FCTransactionRecord">
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        <xs:element name="trans-nbr" type="FC-FinancialTransactionID"/>
        <xs:element name="trans-time" type="CPT-DateTime"/>
        <xs:element name="trans-location" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="trans-stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="trans-sc-objects" minOccurs="0">
            <xs:complexType>
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                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="trans-sc-object" type="FCSCObjectRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="trans-fare-record" type="FCFareRecord" minOccurs="0"/>
        <xs:element name="value-stored" type="FC-ValueAdd" minOccurs="0"/>
        <xs:element name="value-collected" type="FC-ValueDeduct" minOccurs="0"/>
        <xs:element name="value-currency" type="FC-MonetaryInstrAuth" minOccurs="0"/>
        <xs:element name="rides-collected" type="FC-RideValueDeduct" minOccurs="0"/>
        <xs:element name="rides-sold" type="FC-RideValueAdd" minOccurs="0"/>
        <xs:element name="policy" type="FCFarePolicyIden" minOccurs="0"/>
        <xs:element name="number-riders" type="FC-RidersOnFareInstr" minOccurs="0"/>
        <xs:element name="prior-count" type="OB-J1587-PassengerCounterPatronCount" minOccurs="0"/>
        <xs:element name="post-count" type="OB-J1587-PassengerCounterPatronCount" minOccurs="0"/>
        <xs:element name="trans-type" type="FC-FinancialTransactionType"/>
        <xs:element name="description" type="FC-TransactionDescription" minOccurs="0"/>
        <xs:element name="result" type="FC-TransactionDescription" minOccurs="0"/>
        <xs:element name="ride-records">
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                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="ride-record" type="FCRideTransaction"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="localFCTransactionRecord" type="local:FCTransactionRecord" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame FCDayDefinition-->
<xs:complexType name="FCDayDefinition">
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        <xs:element name="begin-date" type="CPT-Date"/>
        <xs:element name="end-date" type="CPT-Date"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
        <xs:element name="day-types">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="day-type" type="SCH-DayType"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Frame FCAllowedTransferRecord-->
<xs:complexType name="FCAllowedTransferRecord">
    <xs:sequence>
        <xs:element name="transferID" type="SCH-TransferID"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
        <xs:element name="from-route" type="SCHRouteIden"/>
        <xs:element name="from-route-direction" type="SCH-RouteDirectionName" minOccurs="0"/>
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        <xs:element name="from-route-directionLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
        <xs:element name="from-transaction-time" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="from-monetary-value" type="FC-FareCost"/>
        <xs:element name="from-ride-value" type="FC-RideValue"/>
        <xs:element name="from-stop" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="to-transaction-time" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="to-routes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="to-route" type="SCHRouteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="to-route-directions" minOccurs="0">
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                    <xs:element name="to-route-direction" type="SCH-RouteDirectionName"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="to-route-directionsLangs" minOccurs="0">
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                    <xs:element name="to-route-directionsLang" type="CPTAdditionalLanguageContents"/>
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            </xs:complexType>
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        <xs:element name="to-monetary-values" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="500">
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            </xs:complexType>
        </xs:element>
        <xs:element name="to-ride-values" minOccurs="0">
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                    <xs:element name="to-ride-value" type="FC-RideValue"/>
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            </xs:complexType>
        </xs:element>
        <xs:element name="to-stops" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="to-stop" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
  </xs:complexType>
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<!-- Frame FCFareRecord-->
<xs:complexType name="FCFareRecord">
    <xs:sequence>
        <xs:element name="fare-record-id" type="FC-FareRecordID"/>
        <xs:element name="passenger-types">
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                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="passenger-type" type="atis:TravelerClass"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="instrument-types">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="300">
                    <xs:element name="instrument-type" type="FC-MonetaryInstrType"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="value-currency" type="FC-MonetaryInstrAuth" minOccurs="0"/>
        <xs:element name="value-amount" type="FC-MonetaryInstrValue" minOccurs="0"/>
        <xs:element name="ride-quantity" type="FC-RideValueDeduct" minOccurs="0"/>
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        <xs:element name="fare-definition-id" type="FC-FareDefinitionRecordID"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
        <xs:element name="earliest-time" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="latest-time" type="CPT-Time" minOccurs="0"/>
        <xs:element name="day-types" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10">
                    <xs:element name="day-type" type="SCH-DayType"/>
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            </xs:complexType>
        </xs:element>
        <xs:element name="zone-pairs" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="zone-pair" type="FCFareZoneTableEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="stop-pairs" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="stop-pair" type="FCStoppointPair"/>
                </xs:sequence>
            </xs:complexType>
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            <xs:element name="boarding-stops" minOccurs="0">
                <xs:complexType>
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                        <xs:element name="boarding-stop" type="CPTStoppointIden"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="fare-records">
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                    <xs:sequence minOccurs="1" maxOccurs="100">
                        <xs:element name="fare-record" type="FCFareRecord"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="fareRoute" type="SCHRouteIden" minOccurs="0"/>
            <xs:element name="maximumAllowedTransfers" type="CPT-GenericCounter" minOccurs="0"/>
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    </xs:complexType>
    <!-- Frame CCManualAlarmDefinition-->
    <xs:complexType name="CCManualAlarmDefinition">
        <xs:sequence>
            <xs:element name="alarmID" type="CC-ManualAlarmID"/>
            <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
            <xs:element name="alarmText" type="CC-AlarmText"/>
            <xs:element name="alarmTextLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="localCCManualAlarmDefinition" type="local:CCManualAlarmDefinition"
minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame PIXMLTimetable-->
    <xs:complexType name="PIXMLTimetable">
        <xs:sequence>
            <xs:element name="agency-id" type="CPT-AgencyID" minOccurs="0"/>
            <xs:element name="mode" type="CPT-Mode" minOccurs="0"/>
            <xs:element name="route" type="SCHRouteIden"/>
            <xs:element name="direction" type="SCH-RouteDirectionName"/>
            <xs:element name="directionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="schedule-identifier" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="schedule-identifierLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="route-text" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="route-textLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="day-types" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="10">
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                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="day-type-description" type="SCH-DayTypeDescription" minOccurs="0"/>
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            <xs:element name="day-type-descriptionLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="map" type="PIMap" minOccurs="0"/>
            <xs:element name="other-info" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="other-infoLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="trip-entries">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="1000">
                        <xs:element name="trip-entrie" type="SCHTimeTableTrip"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="localPIXMLTimetable" type="local:PIXMLTimetable" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame CCPollingGroupInit-->
    <xs:complexType name="CCPollingGroupInit">
        <xs:sequence>
            <xs:element name="group" type="CC-PollingGroup"/>
            <xs:element name="ip-address" type="CPT-IPAddress"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame CCPollingGroupUpdate-->
    <xs:complexType name="CCPollingGroupUpdate">
        <xs:sequence>
            <xs:element name="vehicle" type="CPTVehicleIden"/>
            <xs:element name="group" type="CC-PollingGroup"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame CCPTVLocation-->
    <xs:complexType name="CCPTVLocation">
        <xs:sequence>
            <xs:element name="vehicle" type="CPTVehicleIden"/>
            <xs:element name="date-time" type="CPT-DateTime"/>
            <xs:element name="loc-lat" type="lrms:Latitude"/>
            <xs:element name="loc-lon" type="lrms:Longitude"/>
            <xs:element name="loc-dir" type="lrms:Angle"/>
            <xs:element name="loc-spd" type="OB-J1587-VelocityVectorSpeed"/>
            <xs:element name="onRoute" type="CC-RouteAdherenceState" minOccurs="0"/>
            <xs:element name="last-timepoint" type="SCHTimepointIden" minOccurs="0"/>
            <xs:element name="data-quality" type="SPDataQuality" minOccurs="0"/>
            <xs:element name="onboard" type="OB-J1587-PassengerCounterPatronCount" minOccurs="0"/>
            <xs:element name="manufacturer-data" type="CC-ManufacturerData" minOccurs="0"/>
            <xs:element name="tripDistance" type="lrms:Distance" minOccurs="0"/>
            <xs:element name="tripID" type="SCHTripIden" minOccurs="0"/>
            <xs:element name="routeID" type="SCHRouteIden" minOccurs="0"/>
            <xs:element name="odometer-reading" type="CPT-GenericCounter" minOccurs="0"/>
            <xs:element name="blockID" type="SCHBlockIden" minOccurs="0"/>
            <xs:element name="operatorID" type="CPTOperatorIden" minOccurs="0"/>
            <xs:element name="runID" type="SCHRunIden" minOccurs="0"/>
            <xs:element name="destSignCode" type="CC-DestinationMessageID" minOccurs="0"/>
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            <xs:element name="emergencyCodes" minOccurs="0">
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                        <xs:element name="emergencyCode" type="CC-EmergencyCode"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="trainID" type="CPTTrainIden" minOccurs="0"/>
            <xs:element name="lastTimepointTime" type="CPT-DateTime" minOccurs="0"/>
            <xs:element name="nextTimepoint" type="SCHTimepointIden" minOccurs="0"/>
            <xs:element name="nextTimepointTime" type="CPT-DateTime" minOccurs="0"/>
            <xs:element name="lateSeconds" type="PI-OffSchedule" minOccurs="0"/>
            <xs:element name="routeDirection" type="SCH-RouteDirectionName" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame CCPTVAlarm-->
    <xs:complexType name="CCPTVAlarm">
        <xs:sequence>
            <xs:element name="vehicle" type="CPTVehicleIden"/>
            <xs:element name="alarm-info" type="CCAlarm"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame CCPullOutReport-->
    <xs:complexType name="CCPullOutReport">
        <xs:sequence>
            <xs:element name="vehicleID" type="CPTVehicleIden"/>
            <xs:element name="pullout-time" type="CPT-DateTime" minOccurs="0"/>
            <xs:element name="pullout-trip" type="SCHTripIden" minOccurs="0"/>
            <xs:element name="pullout-location" type="lrms:GeoLocation" minOccurs="0"/>
            <xs:element name="schedPullOutTime" type="CPT-DateTime" minOccurs="0"/>
            <xs:element name="parked-spot" type="CPTParkingSpace" minOccurs="0"/>
            <xs:element name="trainID" type="CPTTrainIden" minOccurs="0"/>
            <xs:element name="localCCPullOutReport" type="local:CCPullOutReport" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame TSPStrategyEntry-->
    <xs:complexType name="TSPStrategyEntry">
        <xs:sequence>
            <xs:element name="resultantStrategyID" type="SCP-PriorityStrategyNumber"/>
            <xs:element name="resultantClassType" type="SCP-VehicleClassType"/>
            <xs:element name="resultantClassLevel" type="SCP-VehicleClassLevel"/>
            <xs:element name="strategyTimeBegin" type="SCH-Time" minOccurs="0"/>
            <xs:element name="strategyTimeEnd" type="SCH-Time" minOccurs="0"/>
            <xs:element name="schLateMinimum" type="OB-ScheduleAdherenceOffset" minOccurs="0"/>
            <xs:element name="schLateMaximum" type="OB-ScheduleAdherenceOffset" minOccurs="0"/>
            <xs:element name="schRecoveryMinimum" type="OB-ScheduleAdherenceOffset" minOccurs="0"/>
            <xs:element name="prgLoadMinimum" type="OB-J1587-PassengerCounterPatronCount"
minOccurs="0"/>
            <xs:element name="travelPath" type="TSP-IntersectionPath" minOccurs="0"/>
            <xs:element name="allowed-boundaries">
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                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="allowed-boundarie" type="TSP-BoundaryID"/>
                </xs:sequence>
            </xs:complexType>
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        <xs:element name="allowed-intersections" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="allowed-intersection" type="TSPAllowedIntersection"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Frame TSPIntersectionEntry-->
<xs:complexType name="TSPIntersectionEntry">
    <xs:sequence>
        <xs:element name="intersection" type="CPTIntersectionIden"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
        <xs:element name="boundaryID" type="TSP-BoundaryID"/>
        <xs:element name="intersectionIP" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="intersectionPort" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
        <xs:element name="intersectionModem" type="TSP-ModemPhoneNum" minOccurs="0"/>
        <xs:element name="intersectionDropAddr" type="TSP-DropAddr" minOccurs="0"/>
        <xs:element name="intersectionScenario" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="emitter" type="CPT-Boolean"/>
        <xs:element name="intersection-approaches">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10">
                    <xs:element name="intersection-approache" type="TSPTmsIntersectionApproach"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPStopGeoLoc-->
<xs:complexType name="SPStopGeoLoc">
    <xs:sequence>
        <xs:element name="stoppoint" type="CPTStoppointIden"/>
        <xs:element name="pointLocation" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="polygonLocation" type="SPPolygon" minOccurs="0"/>
        <xs:element name="startLocation" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="endLocation" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="signLocation" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="shelterLocation" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="data-quality" type="SPDataQuality" minOccurs="0"/>
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<!-- Frame FCRevenueRecord-->
<xs:complexType name="FCRevenueRecord">
    <xs:sequence>
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        <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="date" type="CPT-DateTime"/>
        <xs:element name="boarding-alighting-list" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="boarding-alighting-list-item" type="FCBoardingAlightingRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="transaction-list" minOccurs="0">
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                    <xs:element name="transaction-list-item" type="FCTransactionRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="cash-box-contents" type="FCCashBoxContents" minOccurs="0"/>
        <xs:element name="health-list" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="health-list-item" type="FCComponentEventInstance"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="health-update-list" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="health-update-list-item" type="FCComponentEventStatusReport"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="localFCRevenueRecord" type="local:FCRevenueRecord" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHTimetableVersion-->
<xs:complexType name="SCHTimetableVersion">
    <xs:sequence>
        <xs:element name="timetable-version-id" type="SCH-TimetableVersionID"/>
        <xs:element name="timetable-version-name" type="SCH-TimetableVersionName"/>
        <xs:element name="activation-date" type="CPT-Date" minOccurs="0"/>
        <xs:element name="deactivation-date" type="CPT-Date" minOccurs="0"/>
        <xs:element name="agency-id" type="CPT-AgencyID" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame FCPassengerCountRecord-->
<xs:complexType name="FCPassengerCountRecord">
    <xs:sequence>
        <xs:element name="route" type="SCHRouteIden" minOccurs="0"/>
        <xs:element name="trip" type="SCHTripIden" minOccurs="0"/>
        <xs:element name="sample-interval-begin" type="CPT-DateTime"/>
```

```
            <xs:element name="sample-interval-end" type="CPT-DateTime"/>
            <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
            <xs:element name="boarded" type="CPT-GenericCounter" minOccurs="0"/>
            <xs:element name="alighted" type="CPT-GenericCounter" minOccurs="0"/>
            <xs:element name="entered-stoppoint" type="CPT-GenericCounter" minOccurs="0"/>
            <xs:element name="exited-stoppoint" type="CPT-GenericCounter" minOccurs="0"/>
            <xs:element name="waiting-at-stoppoint" type="CPT-GenericCounter" minOccurs="0"/>
            <xs:element name="onboard-vehicle" type="CPT-GenericCounter" minOccurs="0"/>
            <xs:element name="localFCPassengerCountRecord" type="local:FCPassengerCountRecord"
minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame CPTStoppointSubsetGroup-->
    <xs:complexType name="CPTStoppointSubsetGroup">
        <xs:sequence>
            <xs:element name="group-id" type="CPT-StoppointSubset"/>
            <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
            <xs:element name="group-name" type="CPT-GroupName"/>
            <xs:element name="group-nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="group-members">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="100000">
                        <xs:element name="group-member" type="CPTStoppointIden"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="group-memo" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="group-memoLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame CPTFleetSubsetGroup-->
    <xs:complexType name="CPTFleetSubsetGroup">
        <xs:sequence>
            <xs:element name="group-id" type="CPT-FleetSubset"/>
            <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
            <xs:element name="group-name" type="CPT-GroupName"/>
            <xs:element name="group-nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="group-garage" type="CPTTransitFacilityIden" minOccurs="0"/>
            <xs:element name="group-members">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="100000">
                        <xs:element name="group-member" type="CPTVehicleIden"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="group-memo" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="group-memoLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame FCEquipmentGroup-->
    <xs:complexType name="FCEquipmentGroup">
```

```
        <xs:sequence>
            <xs:element name="group-id" type="FC-FareEquipmentSubset"/>
            <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
            <xs:element name="group-name" type="CPT-GroupName"/>
            <xs:element name="group-nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="group-garage" type="CPTTransitFacilityIden" minOccurs="0"/>
            <xs:element name="group-stoppoint" type="CPTStoppointIden" minOccurs="0"/>
            <xs:element name="group-members">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="100000">
                        <xs:element name="group-member" type="CPT-SerialNumber"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="group-memo" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="group-memoLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame FCTurnstileCountRecord-->
    <xs:complexType name="FCTurnstileCountRecord">
        <xs:sequence>
            <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
            <xs:element name="turnstile-id" type="FC-TurnstileID" minOccurs="0"/>
            <xs:element name="description" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="begin-time" type="CPT-DateTime"/>
            <xs:element name="end-time" type="CPT-DateTime"/>
            <xs:element name="begin-entry-count" type="CPT-GenericCounter"/>
            <xs:element name="end-entry-count" type="CPT-GenericCounter"/>
            <xs:element name="begin-exit-count" type="CPT-GenericCounter" minOccurs="0"/>
            <xs:element name="end-exit-count" type="CPT-GenericCounter" minOccurs="0"/>
            <xs:element name="localFCTurnstileCountRecord" type="local:FCTurnstileCountRecord"
minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame FCActionListEntryUTFS-->
    <xs:complexType name="FCActionListEntryUTFS">
        <xs:sequence>
            <xs:element name="action-type" type="FC-ActionTypeUTFS"/>
            <xs:element name="localFCActionListEntryUTFS" type="local:FCActionListEntryUTFS"
minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame FCFarePolicyRecord-->
    <xs:complexType name="FCFarePolicyRecord">
        <xs:sequence>
            <xs:element name="policy" type="FCFarePolicyIden"/>
            <xs:element name="policyType" type="FC-PolicyType"/>
            <xs:element name="vehicleTypes" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="20">
                        <xs:element name="vehicleType" type="FC-VehicleType"/>
```

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        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="userTypes" minOccurs="0">
    <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="100">
            <xs:element name="userType" type="atis:TravelerClass"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="fareBasis" type="FC-FareBasis" minOccurs="0"/>
<xs:element name="valid-day-types" minOccurs="0">
    <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="10">
            <xs:element name="valid-day-type" type="SCH-DayType"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="valid-day-times" minOccurs="0">
    <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="10">
            <xs:element name="valid-day-time" type="FCDayTimeInterval"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="multiple-trip-type" type="FC-MultipleTripType" minOccurs="0"/>
<xs:element name="time-to-expiration" type="CPT-Duration" minOccurs="0"/>
<xs:element name="days-to-expiration" type="CPT-GenericCounter" minOccurs="0"/>
<xs:element name="valid-transfer-from-modes" minOccurs="0">
    <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="10">
            <xs:element name="valid-transfer-from-mode" type="CPT-Mode"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="valid-transfer-to-modes" minOccurs="0">
    <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="10">
            <xs:element name="valid-transfer-to-mode" type="CPT-Mode"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="valid-media-types" minOccurs="0">
    <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="20">
            <xs:element name="valid-media-type" type="FC-MonetaryInstrType"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="value-in-trips" type="FC-RideValueDeduct" minOccurs="0"/>
<xs:element name="value-in-currency" type="FC-FareCost" minOccurs="0"/>
```

```
        <xs:element name="currency-type" type="FC-MonetaryInstrAuth" minOccurs="0"/>
        <xs:element name="applicable-discounts" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="applicable-discount" type="FC-DiscountType"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="applicable-pass-types" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="applicable-pass-type" type="FC-PassInstrType"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="max-riders-per-instr" type="FC-RidersOnFIMax" minOccurs="0"/>
        <xs:element name="rides-to-add" type="FC-RideValueAdd" minOccurs="0"/>
        <xs:element name="value-to-add" type="FC-ValueAdd" minOccurs="0"/>
        <xs:element name="parking-cost-type" type="FC-ParkingCostType" minOccurs="0"/>
        <xs:element name="n-nth-ride-free" type="CPT-GenericCounter" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame FCDayTimeInterval-->
<xs:complexType name="FCDayTimeInterval">
    <xs:sequence>
        <xs:element name="begin" type="CPT-DateTime"/>
        <xs:element name="end" type="CPT-Time"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame FCCashBoxReconciliation-->
<xs:complexType name="FCCashBoxReconciliation">
    <xs:sequence>
        <xs:element name="cashboxID" type="CPT-SerialNumber"/>
        <xs:element name="time-reconciled" type="CPT-DateTime"/>
        <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="equipmentID" type="CPT-SerialNumber" minOccurs="0"/>
        <xs:element name="employee" type="CPTEmployeeIden" minOccurs="0"/>
        <xs:element name="employee2" type="CPTEmployeeIden" minOccurs="0"/>
        <xs:element name="expected-contents" type="FCCashBoxContents" minOccurs="0"/>
        <xs:element name="actual-contents" type="FCCashBoxContents" minOccurs="0"/>
        <xs:element name="expected-cash" type="FC-MonetaryValue" minOccurs="0"/>
        <xs:element name="actual-cash" type="FC-MonetaryValue" minOccurs="0"/>
        <xs:element name="cash-currency" type="FC-MonetaryInstrAuth" minOccurs="0"/>
        <xs:element name="reconciliation-ok" type="CPT-Boolean"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame FCVaultContents-->
<xs:complexType name="FCVaultContents">
    <xs:sequence>
        <xs:element name="last-empty-time" type="CPT-DateTime"/>
```

```
        <xs:element name="time-recorded" type="CPT-DateTime"/>
        <xs:element name="vaultID" type="CPT-SerialNumber"/>
        <xs:element name="cashboxIDs">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="30000">
                    <xs:element name="cashboxID" type="CPT-SerialNumber"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="total-cash" type="FC-MonetaryValue" minOccurs="0"/>
        <xs:element name="currency-type" type="FC-MonetaryInstrAuth" minOccurs="0"/>
        <xs:element name="pennies" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="nickels" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="dimes" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="quarters" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="fifty-cent-pieces" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="dollar-coins" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="dollar-bills" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="two-dollar-bills" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="five-dollar-bills" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="ten-dollar-bills" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="twenty-dollar-bills" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="fifty-dollar-bills" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="hundred-dollar-bills" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="token-typeA" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="token-typeB" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="token-typeC" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="token-typeD" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="token-typeE" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="transfer-typeA" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="transfer-typeB" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="transfer-typeC" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="transfer-typeD" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="transfer-typeE" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="transfer-typeF" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="transfer-typeG" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="ticket-typeA" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="ticket-typeB" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="ticket-typeC" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="ticket-typeD" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="ticket-typeE" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="tear-off-typeA" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="tear-off-typeB" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="tear-off-typeC" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="tear-off-typeD" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="tear-off-typeE" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="localFCVaultContents" type="local:FCVaultContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTPushHeader-->
<xs:complexType name="CPTPushHeader">
```

```
    <xs:sequence>
        <xs:element name="file-type" type="CPT-FileIdentifier"/>
        <xs:element name="effective" type="CPT-DateTime"/>
        <xs:element name="sched-version" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="version-number" type="CPT-FileVersion" minOccurs="0"/>
        <xs:element name="source" type="CPT-ApplicationID"/>
        <xs:element name="updates-only" type="CPT-Boolean"/>
        <xs:element name="updates-since" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="updates-thru" type="CPT-DateTime"/>
        <xs:element name="applicability" type="CPTFileApplicability" minOccurs="0"/>
        <xs:element name="time-sent" type="CPT-DateTime"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPTimepointGeoLoc-->
<xs:complexType name="SPTimepointGeoLoc">
    <xs:sequence>
        <xs:element name="timepoint" type="SCHTimepointIden"/>
        <xs:element name="pointLocation" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="data-quality" type="SPDataQuality" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPFacilityGeoLoc-->
<xs:complexType name="SPFacilityGeoLoc">
    <xs:sequence>
        <xs:element name="facility" type="CPTTransitFacilityIden"/>
        <xs:element name="pointLocation" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="polygonLocation" type="SPPolygon" minOccurs="0"/>
        <xs:element name="frontageBegin" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="frontageEnd" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="data-quality" type="SPDataQuality"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPIncidentLocation-->
<xs:complexType name="SPIncidentLocation">
    <xs:sequence>
        <xs:element name="incident" type="IMIncidentIden"/>
        <xs:element name="pointLocation" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="polygonLocation" type="SPPolygon" minOccurs="0"/>
        <xs:element name="lineLocationBegin" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="lineLocationEnd" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="data-quality" type="SPDataQuality" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPSegmentGeolocation-->
<xs:complexType name="SPSegmentGeolocation">
    <xs:sequence>
        <xs:element name="segment" type="SCHPatternSegmentIden"/>
        <xs:element name="waypoints">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="waypoint" type="lrms:GeoLocation"/>
```

```
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="data-quality" type="SPDataQuality" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCConnProtLogEntry-->
<xs:complexType name="CCConnProtLogEntry">
    <xs:sequence>
        <xs:element name="logged-by-ptv" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="logged-by-appl" type="CPT-ApplicationID" minOccurs="0"/>
        <xs:element name="requester-id" type="CC-TravelerRequestID"/>
        <xs:element name="requester-time" type="CPT-DateTime"/>
        <xs:element name="requester-vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="requester-route" type="SCHRouteIden"/>
        <xs:element name="requester-route-direction" type="lrms:Direction" minOccurs="0"/>
        <xs:element name="to-route-direction" type="lrms:Direction" minOccurs="0"/>
        <xs:element name="to-stoppoint" type="CPTStoppointIden"/>
        <xs:element name="requester-eta-at-stoppoint" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="requester-wheelchair" type="CPT-Boolean"/>
        <xs:element name="central-id" type="CC-TravelerRequestID"/>
        <xs:element name="wait-until" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="pickup-PTV" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="dispositions">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="3">
                    <xs:element name="disposition" type="CC-RequestDisposition"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCWheelchairLogEntry-->
<xs:complexType name="CCWheelchairLogEntry">
    <xs:sequence>
        <xs:element name="logged-by-PTV" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="logged-by-appl" type="CPT-ApplicationID" minOccurs="0"/>
        <xs:element name="requester-id" type="CC-TravelerRequestID"/>
        <xs:element name="requester-time" type="CPT-DateTime"/>
        <xs:element name="requester-vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="requester-route" type="SCHRouteIden"/>
        <xs:element name="requester-route-direction" type="lrms:Direction" minOccurs="0"/>
        <xs:element name="to-route-direction" type="lrms:Direction" minOccurs="0"/>
        <xs:element name="to-stoppoint" type="CPTStoppointIden"/>
        <xs:element name="requester-eta-at-stoppoint" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="central-id" type="CC-TravelerRequestID"/>
        <xs:element name="wait-until" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="pickup-PTV" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="dispositions">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="3">
```

```
                <xs:element name="disposition" type="CC-RequestDisposition"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<!-- Frame PIEventAnnouncement-->
<xs:complexType name="PIEventAnnouncement">
  <xs:sequence>
    <xs:element name="activationID" type="SCHActivationIden"/>
    <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
    <xs:element name="destinationSignMessage" type="CCDestinationMessageIden" minOccurs="0"/>
    <xs:element name="destination-sign-duration" type="CPT-Duration" minOccurs="0"/>
    <xs:element name="passenger-info-text" type="PI-DMSMessage" minOccurs="0"/>
    <xs:element name="passenger-info-textLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
    <xs:element name="passenger-info-duration" type="CPT-Duration" minOccurs="0"/>
    <xs:element name="audio-outside" type="CPT-Boolean" minOccurs="0"/>
    <xs:element name="audio-inside" type="CPT-Boolean" minOccurs="0"/>
    <xs:element name="event-audio" type="PI-BinaryAudioData" minOccurs="0"/>
    <xs:element name="event-audio-filename" type="CPT-Footnote" minOccurs="0"/>
    <xs:element name="event-sign-filename" type="CPT-Footnote" minOccurs="0"/>
    <xs:element name="canned" type="CCAnnouncementIden" minOccurs="0"/>
    <xs:element name="tts-audio-text" type="PI-DMSMessage" minOccurs="0"/>
    <xs:element name="tts-audio-textLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<!-- Frame PILostItem-->
<xs:complexType name="PILostItem">
  <xs:sequence>
    <xs:element name="item-type" type="CPT-Footnote"/>
    <xs:element name="item-typeLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    <xs:element name="item-color" type="CPT-Footnote" minOccurs="0"/>
    <xs:element name="item-colorLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    <xs:element name="item-description" type="CPT-Footnote"/>
    <xs:element name="item-descriptionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    <xs:element name="controlled-substance" type="CPT-Boolean"/>
    <xs:element name="ammunition" type="CPT-Boolean"/>
    <xs:element name="firearm" type="CPT-Boolean"/>
    <xs:element name="explosive" type="CPT-Boolean"/>
    <xs:element name="hazmat" type="CPT-Boolean"/>
    <xs:element name="perishable" type="CPT-Boolean"/>
    <xs:element name="live-plant" type="CPT-Boolean"/>
    <xs:element name="live-animal" type="CPT-Boolean"/>
    <xs:element name="human" type="CPT-Boolean"/>
    <xs:element name="lost-ptvID" type="CPTVehicleIden" minOccurs="0"/>
    <xs:element name="lost-stoppoint" type="CPTStoppointIden" minOccurs="0"/>
    <xs:element name="lost-run" type="SCHRunIden" minOccurs="0"/>
    <xs:element name="lost-operator" type="CPTOperatorIden" minOccurs="0"/>
    <xs:element name="lost-employeeID" type="CPTEmployeeIden" minOccurs="0"/>
    <xs:element name="lost-location" type="lrms:AddressPoint"/>
```

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            <xs:element name="lost-time" type="CPT-DateTime" minOccurs="0"/>
            <xs:element name="reported-time" type="CPT-DateTime"/>
            <xs:element name="lost-item-identifier" type="PI-LostFoundItemID"/>
            <xs:element name="associated-found-item" type="PI-LostFoundItemID" minOccurs="0"/>
            <xs:element name="disposition" type="PI-LostItemDisposition"/>
            <xs:element name="reported-by-first-name" type="CPT-PersonFirstName" minOccurs="0"/>
            <xs:element name="reported-by-first-nameLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="reported-by-middle-name" type="CPT-PersonMiddleName" minOccurs="0"/>
            <xs:element name="reported-by-middle-nameLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="reported-by-last-name" type="CPT-PersonLastName" minOccurs="0"/>
            <xs:element name="reported-by-last-nameLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="reporter-address" type="lrms:AddressPoint" minOccurs="0"/>
            <xs:element name="reporter-home-phone" type="IM-HomePhone" minOccurs="0"/>
            <xs:element name="reporter-work-phone" type="IM-WorkPhone" minOccurs="0"/>
            <xs:element name="customer" type="PITravelerIden"/>
            <xs:element name="reported-to-empl" type="CPTEmployeeIden"/>
            <xs:element name="localPILostItem" type="local:PILostItem" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame PIFoundItem-->
    <xs:complexType name="PIFoundItem">
        <xs:sequence>
            <xs:element name="item-type" type="CPT-Footnote"/>
            <xs:element name="item-typeLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="item-keywords" type="CPT-Footnote"/>
            <xs:element name="item-keywordsLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="item-color" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="item-colorLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="item-description" type="CPT-Footnote"/>
            <xs:element name="item-descriptionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="controlled-substance" type="CPT-Boolean"/>
            <xs:element name="ammunition" type="CPT-Boolean"/>
            <xs:element name="firearm" type="CPT-Boolean"/>
            <xs:element name="explosive" type="CPT-Boolean"/>
            <xs:element name="hazmat" type="CPT-Boolean"/>
            <xs:element name="perishable" type="CPT-Boolean"/>
            <xs:element name="live-plant" type="CPT-Boolean"/>
            <xs:element name="human" type="CPT-Boolean"/>
            <xs:element name="found-ptvID" type="CPTVehicleIden" minOccurs="0"/>
            <xs:element name="found-stoppoint" type="CPTStoppointIden" minOccurs="0"/>
            <xs:element name="found-run" type="SCHRunIden" minOccurs="0"/>
            <xs:element name="found-operator" type="CPTOperatorIden" minOccurs="0"/>
            <xs:element name="found-employeeID" type="CPTEmployeeIden" minOccurs="0"/>
            <xs:element name="found-location" type="lrms:AddressPoint"/>
            <xs:element name="found-time" type="CPT-DateTime" minOccurs="0"/>
            <xs:element name="reported-time" type="CPT-DateTime"/>
            <xs:element name="found-item-identifier" type="PI-LostFoundItemID"/>
            <xs:element name="associated-lost-item" type="PI-LostFoundItemID" minOccurs="0"/>
```

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            <xs:element name="disposition" type="PI-LostItemDisposition"/>
            <xs:element name="cust-finder-address" type="lrms:AddressPoint" minOccurs="0"/>
            <xs:element name="cust-finder-phone" type="IM-HomePhone" minOccurs="0"/>
            <xs:element name="cust-finder-id" type="PITravelerIden" minOccurs="0"/>
            <xs:element name="empl-finder" type="CPTEmployeeIden" minOccurs="0"/>
            <xs:element name="ext-agency-name" type="CPT-AgencyName" minOccurs="0"/>
            <xs:element name="ext-agency-nameLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="ext-agency-contact-first-name" type="CPT-PersonFirstName" minOccurs="0"/>
            <xs:element name="ext-agency-contact-first-nameLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="ext-agency-contact-middle-name" type="CPT-PersonMiddleName"
minOccurs="0"/>
            <xs:element name="ext-agency-contact-middle-nameLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="ext-agency-contact-last-name" type="CPT-PersonLastName" minOccurs="0"/>
            <xs:element name="ext-agency-contact-last-nameLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="ext-agency-phone" type="IM-WorkPhone" minOccurs="0"/>
            <xs:element name="ext-agency-identification" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="ext-agency-identificationLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="stored-location" type="lrms:AddressPoint" minOccurs="0"/>
            <xs:element name="stored-facility" type="CPTTransitFacilityIden" minOccurs="0"/>
            <xs:element name="stored-room-number" type="CPT-GenericCounter" minOccurs="0"/>
            <xs:element name="stored-row-number" type="CPT-GenericCounter" minOccurs="0"/>
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            <xs:element name="storage-description" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="storage-descriptionLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="localPIFoundItem" type="local:PIFoundItem" minOccurs="0"/>
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    <xs:complexType name="PIRecurringTripSegment">
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            <xs:element name="origin-stoppoint" type="CPTStoppointIden"/>
            <xs:element name="destination-stoppoint" type="CPTStoppointIden"/>
            <xs:element name="route" type="SCHRouteIden"/>
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minOccurs="0"/>
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    <!-- Frame PIRecurringTrip-->
    <xs:complexType name="PIRecurringTrip">
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            <xs:element name="customer-assigned-name" type="CPT-Footnote"/>
            <xs:element name="customer-assigned-nameLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="earliest-start-time" type="CPT-DateTime"/>
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        <xs:element name="trip-segments">
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        <xs:element name="delivery-mechanism" type="PI-DeliveryMechanism"/>
        <xs:element name="applicable-trip" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="applicable-tripLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="applicable-time-start" type="CPT-DateTime" minOccurs="0"/>
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                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="applicable-stop" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="applicable-route" type="SCHRouteIden" minOccurs="0"/>
        <xs:element name="applicable-direction" type="lrms:Direction" minOccurs="0"/>
        <xs:element name="subscription-begin" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="subscription-end" type="CPT-DateTime" minOccurs="0"/>
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    </xs:complexType>
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        <xs:element name="end-datetime" type="CPT-DateTime"/>
        <xs:element name="operators" minOccurs="0">
            <xs:complexType>
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                    <xs:element name="operator" type="CCSignOnOff"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="engine-cycles" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="engine-cycle" type="CCEngineStartStop"/>
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            </xs:complexType>
        </xs:element>
        <xs:element name="vehicle-parameters" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="vehicle-parameter" type="OBParameterDumpEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="work-histories" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="100000">
                    <xs:element name="work-historie" type="CCBlockWorkRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="localCCOperatingRecord" type="local:CCOperatingRecord" minOccurs="0"/>
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</xs:complexType>
<!-- Frame CCVideoRecord-->
<xs:complexType name="CCVideoRecord">
    <xs:sequence>
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        <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="facility" type="CPTTransitFacilityIden" minOccurs="0"/>
        <xs:element name="cameraNumber" type="CPT-GenericCounter" minOccurs="0"/>
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        <xs:element name="begin-datetime" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="end-datetime" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="video-images">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="video-image" type="PI-BinaryVideoData"/>
                </xs:sequence>
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</xs:complexType>
<!-- Frame CPTVehicleIden-->
<xs:complexType name="CPTVehicleIden">
    <xs:sequence>
        <xs:element name="id" type="CPT-VehicleID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="vin" type="CPT-VIN" minOccurs="0"/>
        <xs:element name="name" type="CPT-VehicleName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-VehicleDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
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        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
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</xs:complexType>
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<xs:complexType name="SCHCalendarEntry">
    <xs:sequence>
        <xs:element name="date" type="CPT-Date"/>
        <xs:element name="types">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="type" type="SCH-DayType"/>
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            </xs:complexType>
        </xs:element>
        <xs:element name="names" minOccurs="0">
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                    <xs:element name="name" type="SCH-DayTypeDescription"/>
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        <xs:element name="namesLangs" minOccurs="0">
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        <xs:element name="exceptions" minOccurs="0">
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                </xs:sequence>
            </xs:complexType>
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</xs:complexType>
<!-- Frame CCWOUpdate-->
<xs:complexType name="CCWOUpdate">
    <xs:sequence>
        <xs:element name="update-time" type="CPT-DateTime"/>
        <xs:element name="employee-updater" type="CPTAssignedEmployee" minOccurs="0"/>
        <xs:element name="contractor-updater" type="CPTAssignedContractor" minOccurs="0"/>
        <xs:element name="update-text" type="CPT-Footnote"/>
        <xs:element name="update-textLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="localCCWOUpdate" type="local:CCWOUpdate" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCWorkOrder-->
<xs:complexType name="CCWorkOrder">
    <xs:sequence>
        <xs:element name="work-order-number" type="CC-WorkorderNumber"/>
        <xs:element name="agencyID" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="requester" type="CPTEmployeeIden" minOccurs="0"/>
        <xs:element name="request-time" type="CPT-DateTime"/>
        <xs:element name="work-location" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="work-stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="work-vehicles" minOccurs="0">
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                    <xs:element name="work-vehicle" type="CPTVehicleIden"/>
                </xs:sequence>
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        <xs:element name="equipmentIDs" minOccurs="0">
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        <xs:element name="work-description" type="CPT-Footnote"/>
        <xs:element name="work-descriptionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="needed-by" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="assigned-employees" minOccurs="0">
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                    <xs:element name="assigned-employee" type="CPTAssignedEmployee"/>
                </xs:sequence>
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            </xs:complexType>
        </xs:element>
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            </xs:complexType>
        </xs:element>
        <xs:element name="needed-parts-materials" minOccurs="0">
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        </xs:element>
        <xs:element name="updates" minOccurs="0">
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        <xs:element name="assigned-supervisor" type="CPTAssignedEmployee" minOccurs="0"/>
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        <xs:element name="statusLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="closed" type="CPT-Boolean"/>
        <xs:element name="closed-time" type="CPT-DateTime" minOccurs="0"/>
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<xs:complexType name="CCHistoricalAdherenceRecord">
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        <xs:element name="operator" type="CPTOperatorIden" minOccurs="0"/>
        <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
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<xs:complexType name="CCCannedAnnouncementRecord">
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        <xs:sequence>
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            <xs:element name="metadata" type="CPTRowMetaData"/>
            <xs:element name="announcementText" type="OB-TextMessage" minOccurs="0"/>
            <xs:element name="announcementTextLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="text-color" type="PI-PIDTextColor" minOccurs="0"/>
            <xs:element name="text-attributes" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="5">
                        <xs:element name="text-attribute" type="PI-PIDTextAttribute"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="announcementGraphic" type="PI-BinaryImageData" minOccurs="0"/>
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            <xs:element name="graphicFormat" type="PI-GraphicFormat" minOccurs="0"/>
            <xs:element name="audioFormat" type="PI-AudioFormat" minOccurs="0"/>
            <xs:element name="audio-inside" type="CPT-Boolean"/>
            <xs:element name="audio-outside" type="CPT-Boolean"/>
            <xs:element name="text-passenger-displays" type="CPT-Boolean"/>
            <xs:element name="text-destination-signs" type="CPT-Boolean"/>
            <xs:element name="graphic-passenger-displays" type="CPT-Boolean"/>
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            <xs:element name="tts-audio-text" type="PI-DMSMessage" minOccurs="0"/>
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    <xs:complexType name="CPTNeededSupplies">
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    </xs:complexType>
    <!-- Frame CPTAssignedContractor-->
    <xs:complexType name="CPTAssignedContractor">
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            <xs:element name="firstName" type="CPT-PersonFirstName" minOccurs="0"/>
            <xs:element name="middleName" type="CPT-PersonMiddleName" minOccurs="0"/>
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            <xs:element name="lastName" type="CPT-PersonLastName" minOccurs="0"/>
            <xs:element name="phone" type="CPT-EmployeeTelephone" minOccurs="0"/>
            <xs:element name="role" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="roleLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="localCPTAssignedContractor" type="local:CPTAssignedContractor"
minOccurs="0"/>
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    <xs:complexType name="CPTAssignedEmployee">
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            <xs:element name="phone" type="CPT-EmployeeTelephone" minOccurs="0"/>
            <xs:element name="role" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="roleLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="localCPTAssignedEmployee" type="local:CPTAssignedEmployee"
minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame FCVaultEvent-->
    <xs:complexType name="FCVaultEvent">
        <xs:sequence>
            <xs:element name="facility" type="CPTTransitFacilityIden"/>
            <xs:element name="removedVaultID" type="CPT-SerialNumber" minOccurs="0"/>
            <xs:element name="insertedVaultID" type="CPT-SerialNumber" minOccurs="0"/>
            <xs:element name="timeVaultRemoved" type="CPT-DateTime" minOccurs="0"/>
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            <xs:element name="removedVaultContents" type="FCVaultContents" minOccurs="0"/>
            <xs:element name="vaultDoorOpenTime" type="CPT-DateTime" minOccurs="0"/>
            <xs:element name="vaultDoorCloseTime" type="CPT-DateTime" minOccurs="0"/>
            <xs:element name="location" type="lrms:GeoLocation" minOccurs="0"/>
            <xs:element name="time-recorded" type="CPT-DateTime"/>
            <xs:element name="localFCVaultEvent" type="local:FCVaultEvent" minOccurs="0"/>
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    </xs:complexType>
    <!-- Frame OBHealthStatusRecord-->
    <xs:complexType name="OBHealthStatusRecord">
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            <xs:element name="application" type="CPT-ApplicationID" minOccurs="0"/>
            <xs:element name="address" type="CPT-IPAddress" minOccurs="0"/>
            <xs:element name="port" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
            <xs:element name="health-states">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="10">
                        <xs:element name="health-state" type="CPT-HealthStatus"/>
                    </xs:sequence>
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            <xs:element name="note" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="noteLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
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        <xs:element name="features" minOccurs="0">
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</xs:complexType>
<!-- Frame CPTGenericIden-->
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        <xs:element name="specific-type" type="CPT-FeatureType" minOccurs="0"/>
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        <xs:element name="name1" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="name1Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="name2" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="name2Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="name3" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="name3Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="name4" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="name4Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="name5" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="name5Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="name6" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="name6Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="name7" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="name7Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="name8" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="name8Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="numeric2" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="id" type="CPT-GenericID"/>
        <xs:element name="name" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
```

```
</xs:complexType>
<!-- Frame FCFareZoneIden-->
<xs:complexType name="FCFareZoneIden">
    <xs:sequence>
        <xs:element name="id" type="CPT-FareZoneID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="name" type="FC-FareZoneName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTIntersectionIden-->
<xs:complexType name="CPTIntersectionIden">
    <xs:sequence>
        <xs:element name="id" type="TSP-TMS-IntersectionID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="tmdd-id" type="tmdd:Intersection-identifier" minOccurs="0"/>
        <xs:element name="name" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHBlockScheduleEntry-->
<xs:complexType name="SCHBlockScheduleEntry">
    <xs:sequence>
        <xs:element name="block" type="SCHBlockIden"/>
        <xs:element name="metadata" type="CPTRowMetaData"/>
        <xs:element name="pullOutTime" type="SCH-Time" minOccurs="0"/>
        <xs:element name="pullInTime" type="SCH-Time" minOccurs="0"/>
        <xs:element name="pullOutLocation" type="lrms:GeoLocation"/>
        <xs:element name="pullInLocation" type="lrms:GeoLocation"/>
        <xs:element name="day-types">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="day-type" type="SCH-DayType"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="trip-details">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="trip-detail" type="SCHTripInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
```

```
            <xs:element name="begin-timepoint" type="SCHTimepointIden" minOccurs="0"/>
            <xs:element name="end-timepoint" type="SCHTimepointIden" minOccurs="0"/>
            <xs:element name="block-notes" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="100">
                        <xs:element name="block-note" type="SCHNoteIden"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="beginTime" type="CPT-Time" minOccurs="0"/>
            <xs:element name="endTime" type="CPT-Time" minOccurs="0"/>
            <xs:element name="localSCHBlockScheduleEntry" type="local:SCHBlockScheduleEntry"
minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame SCHRunScheduleEntry-->
    <xs:complexType name="SCHRunScheduleEntry">
        <xs:sequence>
            <xs:element name="run" type="SCHRunIden"/>
            <xs:element name="metadata" type="CPTRowMetaData"/>
            <xs:element name="beginTime" type="CPT-Time" minOccurs="0"/>
            <xs:element name="endTime" type="CPT-Time" minOccurs="0"/>
            <xs:element name="beginLocation" type="lrms:GeoLocation"/>
            <xs:element name="endLocation" type="lrms:GeoLocation"/>
            <xs:element name="day-types">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="20">
                        <xs:element name="day-type" type="SCH-DayType"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="trip-details">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="100">
                        <xs:element name="trip-detail" type="SCHTripInfo"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="begin-timepoint" type="SCHTimepointIden" minOccurs="0"/>
            <xs:element name="end-timepoint" type="SCHTimepointIden" minOccurs="0"/>
            <xs:element name="run-notes" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="100">
                        <xs:element name="run-note" type="SCHNoteIden"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="schBeginTime" type="SCH-Time" minOccurs="0"/>
            <xs:element name="schEndTime" type="SCH-Time" minOccurs="0"/>
            <xs:element name="localSCHRunScheduleEntry" type="local:SCHRunScheduleEntry"
minOccurs="0"/>
```

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    </xs:sequence>
</xs:complexType>
<!-- Frame SCHOperatorPay-->
<xs:complexType name="SCHOperatorPay">
    <xs:sequence>
        <xs:element name="type" type="SCH-PayType"/>
        <xs:element name="time" type="CPT-Duration"/>
        <xs:element name="amount" type="FC-MonetaryInstrValue" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHBlockSubsetsGroup-->
<xs:complexType name="SCHBlockSubsetsGroup">
    <xs:sequence>
        <xs:element name="group-id" type="SCH-BlockSubset"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
        <xs:element name="group-name" type="CPT-GroupName"/>
        <xs:element name="group-nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="group-members">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50000">
                    <xs:element name="group-member" type="SCHBlockIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="group-memo" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="group-memoLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPDataQuality-->
<xs:complexType name="SPDataQuality">
    <xs:sequence>
        <xs:element name="qualitative-indicator" type="SP-QualityLevel" minOccurs="0"/>
        <xs:element name="cep-90-percent" type="lrms:Distance" minOccurs="0"/>
        <xs:element name="cep-95-percent" type="lrms:Distance" minOccurs="0"/>
        <xs:element name="cep-99-percent" type="lrms:Distance" minOccurs="0"/>
        <xs:element name="cep-99pt9percent" type="lrms:Distance" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHTimeTableEntry-->
<xs:complexType name="SCHTimeTableEntry">
    <xs:sequence>
        <xs:element name="timepointID" type="SCHTimepointIden"/>
        <xs:element name="timepointName" type="SCH-TimepointName"/>
        <xs:element name="timepointNameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="times">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="time" type="SCH-Time"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
```

```
    </xs:sequence>
</xs:complexType>
<!-- Frame CCVehicleAssignmentChange-->
<xs:complexType name="CCVehicleAssignmentChange">
    <xs:sequence>
        <xs:element name="block" type="SCHBlockIden"/>
        <xs:element name="specific-trips">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="specific-trip" type="SCHTripIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="original-vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="new-vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="begin" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="end" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="trainID" type="CPTTrainIden" minOccurs="0"/>
        <xs:element name="consistBeforeCars" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="40">
                    <xs:element name="consistBeforeCar" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="consistAfterCars" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="40">
                    <xs:element name="consistAfterCar" type="CPTVehicleIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCOperatorAssignmentChange-->
<xs:complexType name="CCOperatorAssignmentChange">
    <xs:sequence>
        <xs:element name="run" type="SCHRunIden"/>
        <xs:element name="specific-trips">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="specific-trip" type="SCHTripIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="change-stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="change-location" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="original-operator" type="CPTOperatorIden" minOccurs="0"/>
        <xs:element name="new-operator" type="CPTOperatorIden" minOccurs="0"/>
        <xs:element name="begin" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="end" type="CPT-DateTime" minOccurs="0"/>
```

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    </xs:sequence>
</xs:complexType>
<!-- Frame CCOffRouteTrack-->
<xs:complexType name="CCOffRouteTrack">
    <xs:sequence>
        <xs:element name="loc-lat" type="lrms:Latitude"/>
        <xs:element name="loc-lon" type="lrms:Longitude"/>
        <xs:element name="loc-dir" type="lrms:Angle"/>
        <xs:element name="loc-spd" type="OB-J1587-VelocityVectorSpeed"/>
        <xs:element name="time" type="CPT-DateTime"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCSignOnOff-->
<xs:complexType name="CCSignOnOff">
    <xs:sequence>
        <xs:element name="operator" type="CPTOperatorIden"/>
        <xs:element name="sign-on" type="CPT-Boolean"/>
        <xs:element name="time" type="CPT-DateTime"/>
        <xs:element name="run" type="SCHRunIden" minOccurs="0"/>
        <xs:element name="localCCSignOnOff" type="local:CCSignOnOff" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCTimepointHistory-->
<xs:complexType name="CCTimepointHistory">
    <xs:sequence>
        <xs:element name="timepoint" type="SCHTimepointIden"/>
        <xs:element name="run" type="SCHRunIden"/>
        <xs:element name="scheduledTime" type="SCH-Time"/>
        <xs:element name="actualTime" type="SCH-Time"/>
        <xs:element name="trip" type="SCHTripIden" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCBlockWorkRecord-->
<xs:complexType name="CCBlockWorkRecord">
    <xs:sequence>
        <xs:element name="block" type="SCHBlockIden"/>
        <xs:element name="begin-time" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="end-time" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="timepoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="timepoint" type="CCTimepointHistory"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="stoppoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="stoppoint" type="OBStoppointRecord"/>
                </xs:sequence>
            </xs:complexType>
```

```
        </xs:element>
        <xs:element name="deviations" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="deviation" type="CCRouteDeviationRecord"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="passenger-miles" type="CC-PassengerMiles" minOccurs="0"/>
        <xs:element name="localCCBlockWorkRecord" type="local:CCBlockWorkRecord" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCEngineStartStop-->
<xs:complexType name="CCEngineStartStop">
    <xs:sequence>
        <xs:element name="start" type="CPT-Boolean"/>
        <xs:element name="time" type="CPT-DateTime"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCRouteDeviationRecord-->
<xs:complexType name="CCRouteDeviationRecord">
    <xs:sequence>
        <xs:element name="begin-time" type="CPT-DateTime"/>
        <xs:element name="end-time" type="CPT-DateTime"/>
        <xs:element name="run" type="SCHRunIden"/>
        <xs:element name="tracks">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="15000">
                    <xs:element name="track" type="CCOffRouteTrack"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCDetourRecord-->
<xs:complexType name="CCDetourRecord">
    <xs:sequence>
        <xs:element name="route" type="SCHRouteIden"/>
        <xs:element name="direction" type="SCH-RouteDirectionName"/>
        <xs:element name="directionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="departurePoint" type="lrms:GeoLocation"/>
        <xs:element name="returnPoint" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="waypoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="waypoint" type="lrms:GeoLocation"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="approachTimepoint" type="SCHTimepointIden" minOccurs="0"/>
        <xs:element name="approachDestSignText" type="PI-DMSMessage" minOccurs="0"/>
```

```
            <xs:element name="approachDestSignTextLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="approachDestSignIcon" type="PI-BinaryImageData" minOccurs="0"/>
            <xs:element name="detourDestSignText" type="PI-DMSMessage" minOccurs="0"/>
            <xs:element name="detourDestSignTextLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="detourDestSignIcon" type="PI-BinaryImageData" minOccurs="0"/>
            <xs:element name="iconFormat" type="PI-GraphicFormat" minOccurs="0"/>
            <xs:element name="detourDirections" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="detourDirectionsLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="skippedTimeStopPoints" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="100">
                        <xs:element name="skippedTimeStopPoint" type="SCHTimeStoppoint"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="addScheduleTime" type="CPT-Duration" minOccurs="0"/>
            <xs:element name="added-stops" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="100">
                        <xs:element name="added-stop" type="CPTStoppointIden"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="new-stop-locs" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="100">
                        <xs:element name="new-stop-loc" type="lrms:GeoLocation"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="localCCDetourRecord" type="local:CCDetourRecord" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame CCDestinationSignMessage-->
    <xs:complexType name="CCDestinationSignMessage">
        <xs:sequence>
            <xs:element name="messageID" type="CCDestinationMessageIden"/>
            <xs:element name="metadata" type="CPTRowMetaData"/>
            <xs:element name="messageText" type="PI-DMSMessage"/>
            <xs:element name="messageTextLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="messageIcon" type="PI-BinaryImageData" minOccurs="0"/>
            <xs:element name="iconFormat" type="PI-GraphicFormat" minOccurs="0"/>
            <xs:element name="routeID" type="SCHRouteIden" minOccurs="0"/>
            <xs:element name="direction" type="SCH-RouteDirectionName" minOccurs="0"/>
            <xs:element name="directionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame CCStopAnnunciationRecord-->
    <xs:complexType name="CCStopAnnunciationRecord">
```

```
    <xs:sequence>
        <xs:element name="stoppoint" type="CPTStoppointIden"/>
        <xs:element name="metadata" type="CPTRowMetaData"/>
        <xs:element name="stop-name-audio" type="PI-BinaryAudioData" minOccurs="0"/>
        <xs:element name="stop-name-text" type="PI-PIDTakeText" minOccurs="0"/>
        <xs:element name="stop-name-textLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="thisstop-audio-filename" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="nextstop-audio-filename" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="thisstop-sign-filename" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="nextstop-sign-filename" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="stop-name-filename" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="stop-distance" type="lrms:Distance"/>
        <xs:element name="stop-time" type="CPT-Duration"/>
        <xs:element name="disable-before-stop-audio" type="CPT-Boolean" minOccurs="0"/>
        <xs:element name="disable-after-stop-audio" type="CPT-Boolean" minOccurs="0"/>
        <xs:element name="disable-before-stop-text" type="CPT-Boolean" minOccurs="0"/>
        <xs:element name="disable-after-stop-text" type="CPT-Boolean" minOccurs="0"/>
        <xs:element name="tts-stop-name" type="PI-PIDTakeText" minOccurs="0"/>
        <xs:element name="tts-stop-nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPBoundaryRange-->
<xs:complexType name="SPBoundaryRange">
    <xs:sequence>
        <xs:element name="center" type="SPPoint"/>
        <xs:element name="radius" type="lrms:Distance"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPBoundaryBox-->
<xs:complexType name="SPBoundaryBox">
    <xs:sequence>
        <xs:element name="northeast" type="SPPoint"/>
        <xs:element name="southwest" type="SPPoint"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCDestinationSignRule-->
<xs:complexType name="CCDestinationSignRule">
    <xs:sequence>
        <xs:element name="ruleID" type="SCHActivationIden"/>
        <xs:element name="metadata" type="CPTRowMetaData"/>
        <xs:element name="trips" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="trip" type="SCHTripIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="patterns" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="pattern" type="SCHPatternIden"/>
```

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            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="from-timepoint" type="SCHTimepointIden" minOccurs="0"/>
    <xs:element name="from-location" type="lrms:GeoLocation" minOccurs="0"/>
    <xs:element name="fromEvent" type="SCHActivationIden" minOccurs="0"/>
    <xs:element name="to-timepoint" type="SCHTimepointIden" minOccurs="0"/>
    <xs:element name="to-location" type="lrms:GeoLocation" minOccurs="0"/>
    <xs:element name="toEvent" type="SCHActivationIden" minOccurs="0"/>
    <xs:element name="messages">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="10">
                <xs:element name="message" type="CCDestinationMessageIden"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="ext-stop-audio" type="PI-BinaryAudioData" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<!-- Frame CPTLoadFileHeader-->
<xs:complexType name="CPTLoadFileHeader">
  <xs:sequence>
    <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
    <xs:element name="component-identifier" type="OB-MID" minOccurs="0"/>
    <xs:element name="component-IP" type="CPT-IPAddress" minOccurs="0"/>
    <xs:element name="component-port" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
    <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
    <xs:element name="field-address" type="CPT-IPAddress" minOccurs="0"/>
    <xs:element name="field-port" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
    <xs:element name="file-identifier" type="CPT-FileIdentifier"/>
    <xs:element name="version-number" type="CPT-FileVersion" minOccurs="0"/>
    <xs:element name="sched-version" type="SCH-TimetableVersionID" minOccurs="0"/>
    <xs:element name="effective-datetime" type="CPT-DateTime" minOccurs="0"/>
    <xs:element name="updates-since" type="CPT-DateTime" minOccurs="0"/>
    <xs:element name="updated-datetime" type="CPT-DateTime"/>
    <xs:element name="file-size" type="CPT-FileSize"/>
    <xs:element name="applicability" type="CPTFileApplicability" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<!-- Frame CCTakeListItemDefinition-->
<xs:complexType name="CCTakeListItemDefinition">
  <xs:sequence>
    <xs:element name="takeListID" type="CCCannedMsgTakeListIden"/>
    <xs:element name="takeID" type="CCTakeIden"/>
    <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
    <xs:element name="takeText" type="CPT-Footnote" minOccurs="0"/>
    <xs:element name="textTextLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<!-- Frame CCCannedMsgDefinition-->
<xs:complexType name="CCCannedMsgDefinition">
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        <xs:element name="text-1Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="takeList1" type="CCCannedMsgTakeListIden" minOccurs="0"/>
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        <xs:element name="text-2Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
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        <xs:element name="text-3" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="text-3Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="takeList3" type="CCCannedMsgTakeListIden" minOccurs="0"/>
        <xs:element name="text-4" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="text-4Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="takeList4" type="CCCannedMsgTakeListIden" minOccurs="0"/>
        <xs:element name="text-5" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="text-5Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="takeList5" type="CCCannedMsgTakeListIden" minOccurs="0"/>
        <xs:element name="text-6" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="text-6Langs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
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        <xs:element name="identification" type="OB-J1587-SoftwareIdentification"/>
        <xs:element name="manufacturer" type="CPT-Manufacturer" minOccurs="0"/>
        <xs:element name="revision" type="CPT-VersionNo" minOccurs="0"/>
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            </xs:complexType>
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</xs:complexType>
<!-- Frame OBStoppointRecord-->
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        <xs:element name="entry-to-stop-point-zone" type="CPT-Time"/>
        <xs:element name="exit-to-stop-point-zone" type="CPT-Time"/>
        <xs:element name="stop-time-at-stop-pt" type="CPT-Time" minOccurs="0"/>
        <xs:element name="start-time-at-stop-pt" type="CPT-Time" minOccurs="0"/>
        <xs:element name="doorOpen" type="CPT-Time" minOccurs="0"/>
        <xs:element name="doorClose" type="CPT-Time" minOccurs="0"/>
        <xs:element name="schedule-adh-status" type="OB-ScheduleAdherenceOffset" minOccurs="0"/>
        <xs:element name="time-reported" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
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            <xs:element name="location" type="lrms:GeoLocation" minOccurs="0"/>
            <xs:element name="heading" type="SP-AngularDirection" minOccurs="0"/>
            <xs:element name="pattern-segment" type="SCHPatternSegmentIden" minOccurs="0"/>
            <xs:element name="trip" type="SCHTripIden" minOccurs="0"/>
            <xs:element name="block" type="SCHBlockIden" minOccurs="0"/>
            <xs:element name="route" type="SCHRouteIden" minOccurs="0"/>
            <xs:element name="boarded" type="OB-PassengerBoarding" minOccurs="0"/>
            <xs:element name="alighted" type="OB-PassengerAlighting" minOccurs="0"/>
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            <xs:element name="leftDoorBoardAlights" minOccurs="0">
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            <xs:element name="recorded-Time" type="CPT-DateTime" minOccurs="0"/>
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            <xs:element name="parameter-value" type="OBParameterValue"/>
            <xs:element name="localOBParameterDumpEntry" type="local:OBParameterDumpEntry"
minOccurs="0"/>
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    </xs:complexType>
    <!-- Frame SPLocationConversionRequest-->
    <xs:complexType name="SPLocationConversionRequest">
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            <xs:element name="point" type="SPPoint"/>
            <xs:element name="requested-type" type="SP-LocationConversionType"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame SCHWaitingTime-->
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        <xs:sequence>
            <xs:element name="stoppoint" type="CPTStoppointIden"/>
            <xs:element name="other-location" type="lrms:GeoLocation"/>
            <xs:element name="wait-time" type="CPT-Duration"/>
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        <xs:element name="tpi-designator" type="SCH-TimepointIntervalDes" minOccurs="0"/>
        <xs:element name="tpi-designatorLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="startPointID" type="SCHTimepointIden"/>
        <xs:element name="endPointID" type="SCHTimepointIden"/>
        <xs:element name="location" type="atis:Route" minOccurs="0"/>
        <xs:element name="mode" type="CPT-Mode" minOccurs="0"/>
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</xs:complexType>
<!-- Frame SCHRoster-->
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        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
        <xs:element name="dayEntrys" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="7">
                    <xs:element name="dayEntry" type="SCHRosterDayEntry"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="identifier" type="SCHRosterIden"/>
        <xs:element name="operator" type="CPTOperatorIden" minOccurs="0"/>
        <xs:element name="localSCHRoster" type="local:SCHRoster" minOccurs="0"/>
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</xs:complexType>
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<xs:complexType name="SCHEvent">
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                <xs:sequence minOccurs="1" maxOccurs="10">
                    <xs:element name="activationID" type="SCHActivationIden"/>
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        </xs:element>
        <xs:element name="time-begin" type="SCH-Time" minOccurs="0"/>
        <xs:element name="point" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="proximity" type="lrms:Distance" minOccurs="0"/>
        <xs:element name="activation-types" minOccurs="0">
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                    <xs:element name="activation-type" type="SCH-ActivationType"/>
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        </xs:element>
        <xs:element name="fare-zone-id" type="FCFareZoneIden" minOccurs="0"/>
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            <xs:element name="radio-zone-id" type="CPT-RadioZoneID" minOccurs="0"/>
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    </xs:complexType>
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    <xs:complexType name="CPTEmployee">
        <xs:sequence>
            <xs:element name="employee" type="CPTEmployeeIden"/>
            <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
            <xs:element name="employeeTel" type="CPT-EmployeeTelephone" minOccurs="0"/>
            <xs:element name="homeAddress" type="lrms:AddressPoint" minOccurs="0"/>
            <xs:element name="emergencyContactFirst" type="CPT-PersonFirstName" minOccurs="0"/>
            <xs:element name="emergencyContactFirstLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="emergencyContactMiddle" type="CPT-PersonMiddleName" minOccurs="0"/>
            <xs:element name="emergencyContactMiddleLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="emergencyContactLast" type="CPT-PersonLastName" minOccurs="0"/>
            <xs:element name="emergencyContactLastLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="emergencyTelephone" type="CPT-PhoneNumber" minOccurs="0"/>
            <xs:element name="emailAddress" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="pagerNumber" type="CPT-PhoneNumber" minOccurs="0"/>
            <xs:element name="cellPhoneNumber" type="CPT-PhoneNumber" minOccurs="0"/>
            <xs:element name="workPhone" type="CPT-PhoneNumber" minOccurs="0"/>
            <xs:element name="dateHired" type="CPT-Date" minOccurs="0"/>
            <xs:element name="dateSeniority" type="CPT-Date" minOccurs="0"/>
            <xs:element name="dateTerminated" type="CPT-Date" minOccurs="0"/>
            <xs:element name="gender" type="CPT-Sex" minOccurs="0"/>
            <xs:element name="birthdate" type="CPT-Date" minOccurs="0"/>
            <xs:element name="facility" type="CPTTransitFacilityIden" minOccurs="0"/>
            <xs:element name="organization" type="CPTOrganizationalUnitIden" minOccurs="0"/>
            <xs:element name="jobCategory" type="CPT-EmplJobCat" minOccurs="0"/>
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            <xs:element name="jobCategoryDescLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
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            <xs:element name="localCPTEmployee" type="local:CPTEmployee" minOccurs="0"/>
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<!-- Frame CCRouteAdherenceEntry-->
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        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
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        <xs:element name="hi-value-recover" type="OBParameterValue" minOccurs="0"/>
        <xs:element name="lo-value-alarm" type="OBParameterValue" minOccurs="0"/>
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</xs:complexType>
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<xs:complexType name="CCParameterReportRequest">
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<!-- Frame CCParameterRateConfiguration-->
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                </xs:sequence>
            </xs:complexType>
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</xs:complexType>
<!-- Frame CCLogOnOperator-->
<xs:complexType name="CCLogOnOperator">
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        <xs:element name="operator" type="CPTOperatorIden"/>
        <xs:element name="job-category" type="CPT-EmplJobCat" minOccurs="0"/>
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        <xs:element name="operational-status" type="SCH-ServiceType" minOccurs="0"/>
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        <xs:element name="operator-base" type="CPTOperatorBaseIden" minOccurs="0"/>
        <xs:element name="vehicle-base" type="CPTTransitFacilityIden" minOccurs="0"/>
        <xs:element name="block" type="SCHBlockIden" minOccurs="0"/>
        <xs:element name="run" type="SCHRunIden" minOccurs="0"/>
        <xs:element name="route" type="SCHRouteIden" minOccurs="0"/>
        <xs:element name="logOnDateTime" type="CPT-DateTime"/>
        <xs:element name="localCCLogOnOperator" type="local:CCLogOnOperator" minOccurs="0"/>
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<xs:complexType name="CCLogOffOperator">
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        <xs:element name="job-category" type="CPT-EmplJobCat" minOccurs="0"/>
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        <xs:element name="localCCLogOffOperator" type="local:CCLogOffOperator" minOccurs="0"/>
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</xs:complexType>
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        </xs:element>
        <xs:element name="affectedDirections" minOccurs="0">
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    </xs:element>
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        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
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<xs:complexType name="CCActivateScheduleAdherence">
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        <xs:element name="return-tolerance-early" type="CC-ReturnToleranceEarly" minOccurs="0"/>
        <xs:element name="tolerance-late" type="CC-ScheduleToleranceLate"/>
        <xs:element name="return-tolerance-late" type="CC-ReturnToleranceLate" minOccurs="0"/>
        <xs:element name="report-frequency" type="CC-ExceptionFrequencyReport" minOccurs="0"/>
        <xs:element name="response" type="CC-MsgResponse"/>
    </xs:sequence>
</xs:complexType>
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        <xs:element name="value" type="OBParameterValue"/>
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        <xs:element name="loc-lon" type="lrms:Longitude" minOccurs="0"/>
        <xs:element name="loc-dir" type="lrms:Angle" minOccurs="0"/>
        <xs:element name="loc-spd" type="OB-J1587-VelocityVectorSpeed" minOccurs="0"/>
        <xs:element name="time" type="CPT-DateTime"/>
        <xs:element name="other-alarms" minOccurs="0">
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        <xs:element name="localCCAlarm" type="local:CCAlarm" minOccurs="0"/>
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<!-- Frame CCActivateRouteAdherence-->
<xs:complexType name="CCActivateRouteAdherence">
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        <xs:element name="return-path-distance" type="lrms:Distance" minOccurs="0"/>
        <xs:element name="return-stoppoint-count" type="CPT-GenericCounter" minOccurs="0"/>
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<xs:complexType name="PIServiceStatusRequest">
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        <xs:element name="routeDirection" type="SCH-RouteDirectionName" minOccurs="0"/>
        <xs:element name="routeDirectionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
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</xs:complexType>
<!-- Frame SCHVehicleAssignment-->
<xs:complexType name="SCHVehicleAssignment">
    <xs:sequence>
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        <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="operator" type="CPTOperatorIden" minOccurs="0"/>
        <xs:element name="pullOutTime" type="SCH-Time" minOccurs="0"/>
        <xs:element name="pullInTime" type="SCH-Time" minOccurs="0"/>
        <xs:element name="pullOutLocation" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="pullInLocation" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="vehicle-base" type="CPTTransitFacilityIden" minOccurs="0"/>
        <xs:element name="trips" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="trip" type="SCHTripIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="begin-timepoint" type="SCHTimepointIden" minOccurs="0"/>
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        </xs:element>
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        <xs:element name="note" type="SCHNoteIden" minOccurs="0"/>
        <xs:element name="trainID" type="CPTTrainIden" minOccurs="0"/>
        <xs:element name="consistCars" minOccurs="0">
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        </xs:element>
        <xs:element name="localSCHVehicleAssignment" type="local:SCHVehicleAssignment"
minOccurs="0"/>
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</xs:complexType>
<!-- Frame SCHUnassignedVehicle-->
<xs:complexType name="SCHUnassignedVehicle">
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        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="unassigned-date" type="CPT-Date"/>
        <xs:element name="begin-time" type="CPT-Time" minOccurs="0"/>
        <xs:element name="end-time" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="vehicle-base" type="CPTTransitFacilityIden" minOccurs="0"/>
        <xs:element name="localSCHUnassignedVehicle" type="local:SCHUnassignedVehicle"
minOccurs="0"/>
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<!-- Frame SCHUnassignedOperator-->
<xs:complexType name="SCHUnassignedOperator">
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        <xs:element name="operator" type="CPTOperatorIden" minOccurs="0"/>
        <xs:element name="unassigned-date" type="CPT-Date"/>
        <xs:element name="begin-time" type="CPT-Time" minOccurs="0"/>
        <xs:element name="end-time" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="agency" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="operator-base" type="CPTOperatorBaseIden" minOccurs="0"/>
        <xs:element name="localSCHUnassignedOperator" type="local:SCHUnassignedOperator"
minOccurs="0"/>
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</xs:complexType>
<!-- Frame PIServiceBulletinIden-->
<xs:complexType name="PIServiceBulletinIden">
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        <xs:element name="desig" type="PI-ServiceBulletinDes" minOccurs="0"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
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        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="name" type="PI-GeoZoneName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
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<!-- Frame SCHTripInfo-->
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        <xs:element name="route" type="SCHRouteIden"/>
        <xs:element name="direction" type="SCH-RouteDirectionName" minOccurs="0"/>
        <xs:element name="directionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="service-type" type="SCH-ServiceType"/>
        <xs:element name="day-types">
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                    <xs:element name="day-type" type="SCH-DayType"/>
                </xs:sequence>
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        </xs:element>
        <xs:element name="pattern" type="SCHPatternIden" minOccurs="0"/>
        <xs:element name="run" type="SCHRunIden" minOccurs="0"/>
        <xs:element name="block" type="SCHBlockIden" minOccurs="0"/>
        <xs:element name="trip-type" type="SCH-TripType"/>
        <xs:element name="trip-type-name" type="SCH-TripTypeDescription" minOccurs="0"/>
        <xs:element name="trip-type-nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="trip-timepoint-times">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="trip-timepoint-time" type="SCH-Time"/>
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            </xs:complexType>
        </xs:element>
        <xs:element name="trip-stoppoint-times" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="trip-stoppoint-time" type="SCH-Time"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="events" minOccurs="0">
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        </xs:element>
        <xs:element name="notes" minOccurs="0">
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        </xs:element>
        <xs:element name="op-time-type" type="SCH-OperatingTimeType" minOccurs="0"/>
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                <xs:sequence minOccurs="1" maxOccurs="24">
                    <xs:element name="runException" type="SCH-ExceptionID"/>
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        </xs:element>
        <xs:element name="noRunExceptions" minOccurs="0">
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        </xs:element>
        <xs:element name="affStops" minOccurs="0">
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            </xs:complexType>
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        <xs:element name="trainID" type="CPTTrainIden" minOccurs="0"/>
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<!-- Frame SCHTripDetailInfo-->
<xs:complexType name="SCHTripDetailInfo">
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        <xs:element name="route-direction-name" type="SCH-RouteDirectionName" minOccurs="0"/>
        <xs:element name="route-direction-nameLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
        <xs:element name="route-version" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="effective" type="CPT-DateTime"/>
        <xs:element name="tripInfo" type="SCHTripInfo"/>
        <xs:element name="operator" type="CPTOperatorIden" minOccurs="0"/>
        <xs:element name="other-employees" minOccurs="0">
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                    <xs:element name="other-employee" type="CPTEmployeeIden"/>
                </xs:sequence>
            </xs:complexType>
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        <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="activation-date" type="CPT-Date" minOccurs="0"/>
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        <xs:element name="deactivation-date" type="CPT-Date" minOccurs="0"/>
        <xs:element name="relief-operator" type="CPTOperatorIden" minOccurs="0"/>
        <xs:element name="relief-vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="localSCHTripDetailInfo" type="local:SCHTripDetailInfo" minOccurs="0"/>
    </xs:sequence>
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<!-- Frame SCHTransferInfo-->
<xs:complexType name="SCHTransferInfo">
    <xs:sequence>
        <xs:element name="transferID" type="SCH-TransferID"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
        <xs:element name="drop-off" type="SCHServiceAtStop"/>
        <xs:element name="pick-up" type="SCHServiceAtStop"/>
        <xs:element name="transfer-notes" minOccurs="0">
            <xs:complexType>
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                    <xs:element name="transfer-note" type="SCHNoteIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="expected-wait" type="CPT-Duration" minOccurs="0"/>
        <xs:element name="minimum-wait" type="CPT-Duration" minOccurs="0"/>
        <xs:element name="isProtected" type="CPT-Boolean"/>
        <xs:element name="clusterID" type="CPTTransferClusterIden" minOccurs="0"/>
        <xs:element name="activation-date" type="CPT-Date" minOccurs="0"/>
        <xs:element name="deactivation-time" type="CPT-Time" minOccurs="0"/>
        <xs:element name="localSCHTransferInfo" type="local:SCHTransferInfo" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHTimeStoppoint-->
<xs:complexType name="SCHTimeStoppoint">
    <xs:sequence>
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        <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="offset" type="lrms:Distance" minOccurs="0"/>
        <xs:element name="scheduled_gate-bay" type="CPT-GenericCounter" minOccurs="0"/>
        <xs:element name="affected_gate-bays" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="affected_gate-bay" type="CPT-GenericCounter"/>
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<!-- Frame SCHTimepointInfo-->
<xs:complexType name="SCHTimepointInfo">
    <xs:sequence>
        <xs:element name="timepoint" type="SCHTimepointIden"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
        <xs:element name="timepoint-location" type="lrms:GeoLocation"/>
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        <xs:element name="timepoint-notes" minOccurs="0">
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                    <xs:element name="timepoint-note" type="SCHNoteIden"/>
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            </xs:complexType>
        </xs:element>
        <xs:element name="associated-stops" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="associated-stop" type="CPTStoppointIden"/>
                </xs:sequence>
            </xs:complexType>
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        <xs:element name="mode" type="CPT-Mode" minOccurs="0"/>
        <xs:element name="pointlatitude" type="lrms:Latitude" minOccurs="0"/>
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        <xs:element name="localSCHTimepointInfo" type="local:SCHTimepointInfo" minOccurs="0"/>
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</xs:complexType>
<!-- Frame SCHServiceAtStop-->
<xs:complexType name="SCHServiceAtStop">
    <xs:sequence>
        <xs:element name="route" type="SCHRouteIden"/>
        <xs:element name="route-direction" type="SCH-RouteDirectionName"/>
        <xs:element name="route-directionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="route-version" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="effective" type="CPT-DateTime"/>
        <xs:element name="stoppoint" type="CPTStoppointIden"/>
        <xs:element name="trip" type="SCHTripIden"/>
        <xs:element name="time" type="SCH-Time"/>
        <xs:element name="date" type="CPT-Date" minOccurs="0"/>
        <xs:element name="associated-timepoint" type="SCHTimepointIden" minOccurs="0"/>
        <xs:element name="day-types" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="day-type" type="SCH-DayType"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHRouteVersion-->
<xs:complexType name="SCHRouteVersion">
    <xs:sequence>
        <xs:element name="route" type="SCHRouteIden"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
        <xs:element name="route-sched-eff" type="CPT-DateTime"/>
        <xs:element name="route-sched-exp" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="route-sched-version" type="SCH-TimetableVersionID" minOccurs="0"/>
        <xs:element name="route-sched-update" type="CPT-DateTime"/>
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        <xs:element name="timepoint-eff" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="timepoint-exp" type="CPT-DateTime" minOccurs="0"/>
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        <xs:element name="timepoint-update" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="pattern-eff" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="pattern-exp" type="CPT-DateTime" minOccurs="0"/>
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</xs:complexType>
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<xs:complexType name="SCHPullInOutInfo">
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        <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="operator" type="CPTOperatorIden" minOccurs="0"/>
        <xs:element name="date" type="CPT-Date"/>
        <xs:element name="time" type="CPT-DateTime"/>
        <xs:element name="note" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="noteLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="trip" type="SCHTripIden" minOccurs="0"/>
        <xs:element name="run" type="SCHRunIden" minOccurs="0"/>
        <xs:element name="block" type="SCHBlockIden" minOccurs="0"/>
        <xs:element name="parking-location" type="CPTParkingSpace" minOccurs="0"/>
        <xs:element name="localSCHPullInOutInfo" type="local:SCHPullInOutInfo" minOccurs="0"/>
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</xs:complexType>
<!-- Frame SCHPatternInfo-->
<xs:complexType name="SCHPatternInfo">
    <xs:sequence>
        <xs:element name="pattern" type="SCHPatternIden"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
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                    <xs:element name="pattern-note" type="SCHNoteIden"/>
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            </xs:complexType>
        </xs:element>
        <xs:element name="triggers" minOccurs="0">
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        <xs:element name="segments">
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        <xs:element name="segmentOffsets" minOccurs="0">
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                    <xs:element name="segmentOffset" type="lrms:Distance"/>
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            </xs:complexType>
        </xs:element>
        <xs:element name="events" minOccurs="0">
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                <xs:sequence minOccurs="1" maxOccurs="200">
                    <xs:element name="event" type="SCHEvent"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="eventOffsets" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="200">
                    <xs:element name="eventOffset" type="lrms:Distance"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="route" type="SCHRouteIden" minOccurs="0"/>
        <xs:element name="routeDirection" type="SCH-RouteDirectionName" minOccurs="0"/>
        <xs:element name="routeDirectionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="destination" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="destinationLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="modes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="5">
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                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="localSCHPatternInfo" type="local:SCHPatternInfo" minOccurs="0"/>
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</xs:complexType>
<!-- Frame SCHOperatorAssignment-->
<xs:complexType name="SCHOperatorAssignment">
    <xs:sequence>
        <xs:element name="run" type="SCHRunIden"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
        <xs:element name="operator" type="CPTOperatorIden" minOccurs="0"/>
        <xs:element name="base" type="CPTOperatorBaseIden" minOccurs="0"/>
        <xs:element name="other-employees" minOccurs="0">
```

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            <xs:complexType>
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                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
        <xs:element name="beginTime" type="CPT-Time" minOccurs="0"/>
        <xs:element name="endTime" type="CPT-Time" minOccurs="0"/>
        <xs:element name="beginLocation" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="endLocation" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="vehicle-base" type="CPTTransitFacilityIden" minOccurs="0"/>
        <xs:element name="operator-base" type="CPTOperatorBaseIden" minOccurs="0"/>
        <xs:element name="trips">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="trip" type="SCHTripIden"/>
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            </xs:complexType>
        </xs:element>
        <xs:element name="begin-timepoint" type="SCHTimepointIden" minOccurs="0"/>
        <xs:element name="end-timepoint" type="SCHTimepointIden" minOccurs="0"/>
        <xs:element name="run-type" type="SCH-RunType"/>
        <xs:element name="day-types">
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                    <xs:element name="day-type" type="SCH-DayType"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="note" type="SCHNoteIden" minOccurs="0"/>
        <xs:element name="associated-blocks" minOccurs="0">
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                </xs:sequence>
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        <xs:element name="expected-pays" minOccurs="0">
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                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="mode" type="CPT-Mode" minOccurs="0"/>
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minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
  <!-- Frame SCHNoteInfo-->
```

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<xs:complexType name="SCHNoteInfo">
    <xs:sequence>
        <xs:element name="note" type="SCHNoteIden"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
        <xs:element name="public" type="CPT-Boolean"/>
        <xs:element name="note-text" type="SCH-NoteMsg"/>
        <xs:element name="note-textLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="pointLatitude" type="lrms:Latitude" minOccurs="0"/>
        <xs:element name="pointLongitude" type="lrms:Longitude" minOccurs="0"/>
        <xs:element name="localSCHNoteInfo" type="local:SCHNoteInfo" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTSubscriptionHeader-->
<xs:complexType name="CPTSubscriptionHeader">
    <xs:sequence>
        <xs:element name="requestedType" type="CPT-SubscriptionType"/>
        <xs:element name="expirationDate" type="CPT-Date" minOccurs="0"/>
        <xs:element name="expirationTime" type="CPT-Time" minOccurs="0"/>
        <xs:element name="reportInterval" type="CPT-Duration" minOccurs="0"/>
        <xs:element name="requestIdentifier" type="CPT-RequestIdentifier"/>
        <xs:element name="subscriberIdentifier" type="CPT-ApplicationID"/>
        <xs:element name="publisherIdentifier" type="CPT-ApplicationID"/>
        <xs:element name="applicability" type="CPTFileApplicability" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPLocationConversionEntry-->
<xs:complexType name="SPLocationConversionEntry">
    <xs:sequence>
        <xs:element name="point" type="SPPoint"/>
        <xs:element name="requested-type" type="SP-LocationConversionType"/>
        <xs:element name="converted-point" type="SPPoint" minOccurs="0"/>
        <xs:element name="error-message" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="error-messageLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTTransitFacility-->
<xs:complexType name="CPTTransitFacility">
    <xs:sequence>
        <xs:element name="facility" type="CPTTransitFacilityIden"/>
        <xs:element name="facTypes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="25">
                    <xs:element name="facType" type="CPT-TransitFacilityType"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="facDesc" type="CPT-FacilityDesc" minOccurs="0"/>
        <xs:element name="facDescLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="address" type="lrms:AddressPoint"/>
        <xs:element name="location" type="lrms:GeoLocation"/>
        <xs:element name="startDate" type="CPT-Date"/>
```

```
        <xs:element name="endDate" type="CPT-Date" minOccurs="0"/>
        <xs:element name="localCPTTransitFacility" type="local:CPTTransitFacility" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTTransferCluster-->
<xs:complexType name="CPTTransferCluster">
    <xs:sequence>
        <xs:element name="transferCluster" type="CPTTransferClusterIden"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
        <xs:element name="pointLocation" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="stoppoints">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="stoppoint" type="CPTStoppointIden"/>
                </xs:sequence>
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        </xs:element>
        <xs:element name="minimum-wait" type="CPT-Duration" minOccurs="0"/>
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</xs:complexType>
<!-- Frame OBBusVelocityVector-->
<xs:complexType name="OBBusVelocityVector">
    <xs:sequence>
        <xs:element name="velocity" type="OB-J1587-VelocityVectorSpeed"/>
        <xs:element name="heading" type="OB-J1587-VelocityVectorHeading"/>
        <xs:element name="pitch" type="OB-J1587-VelocityVectorPitch"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTChannel-->
<xs:complexType name="CPTChannel">
    <xs:sequence>
        <xs:element name="channelID" type="CPT-ChannelID"/>
        <xs:element name="channelName" type="CPT-ChannelName" minOccurs="0"/>
        <xs:element name="channelNameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="inboundFreq" type="CPT-Frequency" minOccurs="0"/>
        <xs:element name="outboundFreq" type="CPT-Frequency" minOccurs="0"/>
        <xs:element name="channelBand" type="CPT-ChannelBand" minOccurs="0"/>
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        <xs:element name="scaleFactorUDRE" type="OB-J1587-DGPSScaleFactorUDRESatelliteID"/>
        <xs:element name="prc" type="OB-J1587-DGPSPseudorangeCorrection"/>
        <xs:element name="rrc" type="OB-J1587-DGPSRangeRateCorrection"/>
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        <xs:element name="add" type="FC-RideValueAdd"/>
        <xs:element name="deduct" type="FC-RideValueDeduct"/>
        <xs:element name="remaining" type="FC-RideValueRemaining"/>
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        <xs:element name="footnoteLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
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        <xs:element name="level" type="lrms:VerticalLevel" minOccurs="0"/>
        <xs:element name="altitude" type="lrms:Height" minOccurs="0"/>
        <xs:element name="address" type="lrms:AddressPoint" minOccurs="0"/>
        <xs:element name="atStreet" type="lrms:StreetInfo" minOccurs="0"/>
        <xs:element name="distanceFromInt" type="lrms:Distance" minOccurs="0"/>
        <xs:element name="intersectionPlacement" type="CPT-StopPlacement" minOccurs="0"/>
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        <xs:element name="distance" type="lrms:Distance" minOccurs="0"/>
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    </xs:element>
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        <xs:element name="routeDirection" type="SCH-RouteDirectionName" minOccurs="0"/>
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        <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
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        <xs:element name="arriveTimeScheduled" type="CPT-DateTime" minOccurs="0"/>
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        <xs:element name="offScheduleArrival" type="CPT-Duration" minOccurs="0"/>
        <xs:element name="tolerance" type="CPT-Duration" minOccurs="0"/>
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        <xs:element name="commentLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
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minOccurs="0"/>
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        <xs:element name="ownerLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
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        <xs:element name="instructions" type="atis:ParkingInstructions" minOccurs="0"/>
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        <xs:element name="trip" type="SCHTripIden"/>
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        <xs:element name="customer" type="PITravelerIden"/>
        <xs:element name="customer-address" type="lrms:AddressPoint" minOccurs="0"/>
        <xs:element name="customer-cellphone" type="IM-HomePhone" minOccurs="0"/>
        <xs:element name="customer-homephone" type="IM-HomePhone" minOccurs="0"/>
        <xs:element name="customer-workphone" type="IM-WorkPhone" minOccurs="0"/>
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        <xs:element name="customer-pager" type="IM-HomePhone" minOccurs="0"/>
        <xs:element name="customer-fax" type="IM-WorkPhone" minOccurs="0"/>
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    </xs:sequence>
</xs:complexType>
<!-- Frame OBBoardAlightRecord-->
<xs:complexType name="OBBoardAlightRecord">
    <xs:sequence>
        <xs:element name="door-opened" type="CPT-Boolean"/>
        <xs:element name="open-time" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="close-time" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="boarding-count" type="OB-PassengerBoarding"/>
        <xs:element name="alighting-count" type="OB-PassengerAlighting"/>
        <xs:element name="localOBBoardAlightRecord" type="local:OBBoardAlightRecord" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPPoint-->
<xs:complexType name="SPPoint">
    <xs:sequence>
        <xs:element name="pointName" type="lrms:Text-name255" minOccurs="0"/>
        <xs:element name="pointNameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="pointNodeId" type="lrms:IdType" minOccurs="0"/>
        <xs:element name="pointType" type="lrms:PointType" minOccurs="0"/>
        <xs:element name="linearReference" type="SPLink" minOccurs="0"/>
        <xs:element name="addressPoint" type="lrms:AddressPoint" minOccurs="0"/>
        <xs:element name="geoLocationPoint" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="adminArea" type="lrms:AdminAreaGroup" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPPolygon-->
<xs:complexType name="SPPolygon">
    <xs:sequence>
        <xs:element name="polygonName" type="lrms:Text-name255" minOccurs="0"/>
        <xs:element name="polygonNameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="vertices">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="255">
```

```
                <xs:element name="vertice" type="atis:ShapePoint"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="polygonId" type="lrms:String-index64" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<!-- Frame CCVehiclePassRecord-->
<xs:complexType name="CCVehiclePassRecord">
  <xs:sequence>
    <xs:element name="vehicle" type="CPTVehicleIden"/>
    <xs:element name="begin-time" type="CPT-DateTime"/>
    <xs:element name="end-time" type="CPT-DateTime"/>
    <xs:element name="event-records">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="5000">
                <xs:element name="event-record" type="OBStoppointRecord"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<!-- Frame CCVehicleMechRecord-->
<xs:complexType name="CCVehicleMechRecord">
  <xs:sequence>
    <xs:element name="vehicle" type="CPTVehicleIden"/>
    <xs:element name="begin-time" type="CPT-DateTime"/>
    <xs:element name="end-time" type="CPT-DateTime"/>
    <xs:element name="begin-odometer" type="CPT-GenericCounter" minOccurs="0"/>
    <xs:element name="end-odometer" type="CPT-GenericCounter" minOccurs="0"/>
    <xs:element name="engine-cycles" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="100">
                <xs:element name="engine-cycle" type="CCEngineStartStop"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="vehicle-parameters" minOccurs="0">
        <xs:complexType>
            <xs:sequence minOccurs="1" maxOccurs="100000">
                <xs:element name="vehicle-parameter" type="OBParameterDumpEntry"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<!-- Frame SCHTimeTableTripTP-->
<xs:complexType name="SCHTimeTableTripTP">
  <xs:sequence>
    <xs:element name="timepoint-iden" type="SCHTimepointIden"/>
    <xs:element name="trip-timepoint-time" type="SCH-Time"/>
```

```
        <xs:element name="note" type="SCHNoteIden" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHTimeTableTrip-->
<xs:complexType name="SCHTimeTableTrip">
    <xs:sequence>
        <xs:element name="trip" type="SCHTripIden"/>
        <xs:element name="trip-note" type="SCHNoteIden" minOccurs="0"/>
        <xs:element name="mode" type="CPT-Mode" minOccurs="0"/>
        <xs:element name="amenities" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="32">
                    <xs:element name="amenitie" type="atis:AmenitiesList"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="trip-timepoints">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="trip-timepoint" type="SCHTimeTableTripTP"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Frame PITimetableTimepoint-->
<xs:complexType name="PITimetableTimepoint">
    <xs:sequence>
        <xs:element name="timepoint-iden" type="SCHTimepointIden"/>
        <xs:element name="display-hdr-info" type="SCHNoteIden" minOccurs="0"/>
        <xs:element name="display-note" type="SCHNoteIden" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PISchedAdherenceRange-->
<xs:complexType name="PISchedAdherenceRange">
    <xs:sequence>
        <xs:element name="route" type="SCHRouteIden"/>
        <xs:element name="routeDirection" type="SCH-RouteDirectionName" minOccurs="0"/>
        <xs:element name="routeDirectionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="trip" type="SCHTripIden"/>
        <xs:element name="vehicle" type="CPTVehicleIden"/>
        <xs:element name="stoppoint" type="CPTStoppointIden"/>
        <xs:element name="estimatedArrivalRange" type="PI-EstimatedArrivalRange"/>
        <xs:element name="comment" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="commentLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="available-seats" type="CPT-SeatCount" minOccurs="0"/>
        <xs:element name="bulletins" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10">
                    <xs:element name="bulletin" type="PIServiceBulletin"/>
                </xs:sequence>
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            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Frame CCTripCancellationRecord-->
<xs:complexType name="CCTripCancellationRecord">
    <xs:sequence>
        <xs:element name="cancelled-trips">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10000">
                    <xs:element name="cancelled-trip" type="SCHTripIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="day-types" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="day-type" type="SCH-DayType"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="specific-dates" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="300">
                    <xs:element name="specific-date" type="CPT-Date"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Frame TSPScenario5Intersection-->
<xs:complexType name="TSPScenario5Intersection">
    <xs:sequence>
        <xs:element name="intersection" type="CPTIntersectionIden"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
        <xs:element name="intersection-location" type="lrms:GeoLocation"/>
        <xs:element name="stop-bar-locations">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="8">
                    <xs:element name="stop-bar-location" type="lrms:GeoLocation"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="prg-address" type="CPT-IPAddress" minOccurs="0"/>
        <xs:element name="prg-port" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIStaticSign-->
<xs:complexType name="PIStaticSign">
    <xs:sequence>
        <xs:element name="signID" type="PISignIden"/>
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```
        <xs:element name="location" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="stoppoint" type="CPTStoppointIden"/>
        <xs:element name="message" type="PI-StaticSignMessage" minOccurs="0"/>
        <xs:element name="messageLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="description" type="PI-StaticSignDescription" minOccurs="0"/>
        <xs:element name="descriptionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="type" type="PI-SignType" minOccurs="0"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIAmenity-->
<xs:complexType name="PIAmenity">
    <xs:sequence>
        <xs:element name="amenity" type="PIAmenityIden"/>
        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
        <xs:element name="stopAttribute" type="CPT-StoppointAttribute"/>
        <xs:element name="location" type="lrms:GeoLocation" minOccurs="0"/>
        <xs:element name="indoor-location" type="SPInteriorLocation" minOccurs="0"/>
        <xs:element name="name" type="PI-AmenityName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="status" type="PI-AmenityStatus" minOccurs="0"/>
        <xs:element name="stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="infoType" type="PI-InformationType" minOccurs="0"/>
        <xs:element name="footnote" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="footnoteLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="startDate" type="CPT-Date" minOccurs="0"/>
        <xs:element name="startTime" type="CPT-Time" minOccurs="0"/>
        <xs:element name="endDate" type="CPT-Date" minOccurs="0"/>
        <xs:element name="endTime" type="CPT-Time" minOccurs="0"/>
        <xs:element name="facility" type="CPTTransitFacilityIden" minOccurs="0"/>
        <xs:element name="avail-times" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="avail-time" type="PIAvailablePeriod"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="localPIAmenity" type="local:PIAmenity" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PITravelerProfile-->
<xs:complexType name="PITravelerProfile">
    <xs:sequence>
        <xs:element name="traveler" type="PITravelerIden"/>
        <xs:element name="nameLast" type="PI-TravelerLastName"/>
        <xs:element name="nameLastLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="nameFirst" type="PI-TravelerFirstName"/>
        <xs:element name="nameFirstLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="travelerHomeAddress" type="lrms:AddressPoint" minOccurs="0"/>
        <xs:element name="travelerWorkAddress" type="lrms:AddressPoint" minOccurs="0"/>
        <xs:element name="phone" type="PI-TravelerPhone" minOccurs="0"/>
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        <xs:element name="phoneExt" type="PI-TravelerPhoneExtension" minOccurs="0"/>
        <xs:element name="pager" type="PI-TravelerPager" minOccurs="0"/>
        <xs:element name="callBack" type="PI-TravelerCallBack" minOccurs="0"/>
        <xs:element name="fax" type="PI-TravelerFax" minOccurs="0"/>
        <xs:element name="email" type="PI-TravelerEmail" minOccurs="0"/>
        <xs:element name="triggerEvent" type="PI-TravelerTriggerEvent" minOccurs="0"/>
        <xs:element name="triggerEventLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="triggerTime" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="contactMode" type="PI-TravelerContactMode" minOccurs="0"/>
        <xs:element name="mailer" type="PI-TravelerMailingMatl" minOccurs="0"/>
        <xs:element name="mailerLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PITripRequestFareConstraints-->
<xs:complexType name="PITripRequestFareConstraints">
    <xs:sequence>
        <xs:element name="fareInstrumentID" type="FC-FareInstrID" minOccurs="0"/>
        <xs:element name="agencyID" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="monetaryInstID" type="FC-MonetaryInstrType" minOccurs="0"/>
        <xs:element name="rideInstID" type="FC-RideInstrID" minOccurs="0"/>
        <xs:element name="passInstID" type="FC-PassInstrID" minOccurs="0"/>
        <xs:element name="riderClass" type="atis:TravelerClass" minOccurs="0"/>
        <xs:element name="adaNeeds" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10">
                    <xs:element name="adaNeed" type="PI-ADANeed"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="costMax" type="PI-MaxCost" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SCHStoppointPair-->
<xs:complexType name="SCHStoppointPair">
    <xs:sequence>
        <xs:element name="stoppointA" type="CPTStoppointIden"/>
        <xs:element name="stoppointB" type="CPTStoppointIden"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PITripRequest-->
<xs:complexType name="PITripRequest">
    <xs:sequence>
        <xs:element name="tripRequest" type="atis:RouteRequest"/>
        <xs:element name="returnRequest" type="atis:RouteRequest" minOccurs="0"/>
        <xs:element name="profile" type="PITravelerProfile" minOccurs="0"/>
        <xs:element name="fareConstraints" type="PITripRequestFareConstraints" minOccurs="0"/>
        <xs:element name="mapRequest" type="CPT-Boolean"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTRadioZone-->
<xs:complexType name="CPTRadioZone">
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    <xs:sequence>
        <xs:element name="radioZone" type="CPT-RadioZoneID"/>
        <xs:element name="channels">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="channel" type="CPTChannel"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="zone" type="SPPolygon"/>
        <xs:element name="comment" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="commentLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame IMTrafficImpact-->
<xs:complexType name="IMTrafficImpact">
    <xs:sequence>
        <xs:element name="affected-roads">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="affected-road" type="lrms:StreetInfo"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="lane-blocked-count" type="tmdd:Event-lanes-total-affected"/>
        <xs:element name="time-est-duration" type="tmdd:Event-timeline-estimated-duration"/>
        <xs:element name="clear-date-time" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="lane-status-datasets" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="lane-status-dataset" type="tmdd:Link-status"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="localIMTrafficImpact" type="local:IMTrafficImpact" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame IMWitness-->
<xs:complexType name="IMWitness">
    <xs:sequence>
        <xs:element name="incident" type="IMIncidentIden"/>
        <xs:element name="person" type="IMPerson"/>
        <xs:element name="witness-stmt" type="IM-WitnessStatement" minOccurs="0"/>
        <xs:element name="localIMWitness" type="local:IMWitness" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame SPLink-->
<xs:complexType name="SPLink">
    <xs:sequence>
        <xs:element name="name" type="lrms:Text-name255" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
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```
        <xs:element name="info" type="lrms:StreetInfo" minOccurs="0"/>
        <xs:element name="begin-lat" type="lrms:Latitude"/>
        <xs:element name="begin-lon" type="lrms:Longitude"/>
        <xs:element name="end-lat" type="lrms:Latitude"/>
        <xs:element name="end-lon" type="lrms:Longitude"/>
        <xs:element name="dist-along" type="lrms:NormalizedDistance" minOccurs="0"/>
        <xs:element name="side" type="lrms:Side"/>
        <xs:element name="points" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="point" type="atis:ShapePoint"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Frame IMReportedBy-->
<xs:complexType name="IMReportedBy">
    <xs:sequence>
        <xs:element name="response-org" type="IM-ResponseAgencyID"/>
        <xs:element name="person-id" type="IM-PersonIdentifier"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame IMInjury-->
<xs:complexType name="IMInjury">
    <xs:sequence>
        <xs:element name="incident" type="IMIncidentIden"/>
        <xs:element name="injury-nature" type="IM-InjuryNature"/>
        <xs:element name="person" type="IMPerson" minOccurs="0"/>
        <xs:element name="reported-by" type="IMReportedBy"/>
        <xs:element name="facility-name" type="IM-CareFacilityName" minOccurs="0"/>
        <xs:element name="facility-nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="ptv" type="IMPTVehicleInvolved"/>
        <xs:element name="other-veh" type="IMOtherVehicleInvolved"/>
        <xs:element name="transit-facility" type="CPTTransitFacilityIden"/>
        <xs:element name="geo-loc" type="lrms:GeoLocation"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame IMOtherVehicleInvolved-->
<xs:complexType name="IMOtherVehicleInvolved">
    <xs:sequence>
        <xs:element name="other-veh" type="IM-OtherVehicleInvolvedID" minOccurs="0"/>
        <xs:element name="veh-type" type="IM-VehicleInvolvedType"/>
        <xs:element name="incident" type="IMIncidentIden"/>
        <xs:element name="veh-info" type="IMVehicleIDInformation"/>
        <xs:element name="heading" type="lrms:Direction"/>
        <xs:element name="speed" type="OB-J1587-VelocityVectorSpeed"/>
        <xs:element name="damage" type="IM-VehicleDamage" minOccurs="0"/>
        <xs:element name="injury-info" type="IMInjuryInfo"/>
        <xs:element name="operator" type="IMPerson" minOccurs="0"/>
        <xs:element name="passengers">
```

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            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="passenger" type="IMPerson"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="veh-person-count" type="IM-VehicleOccupantCount" minOccurs="0"/>
        <xs:element name="post-acc-test" type="IM-PostAccidentTest" minOccurs="0"/>
        <xs:element name="footnote" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="footnoteLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="localIMOtherVehicleInvolved" type="local:IMOtherVehicleInvolved"
minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
  <!-- Frame IMPTVehicleInvolved-->
  <xs:complexType name="IMPTVehicleInvolved">
    <xs:sequence>
        <xs:element name="ptv" type="CPTVehicleIden"/>
        <xs:element name="incident" type="IMIncidentIden"/>
        <xs:element name="operator" type="CPTOperatorIden"/>
        <xs:element name="operator-injured" type="IM-OperatorInjured"/>
        <xs:element name="post-accident-test" type="IM-PostAccidentTest"/>
        <xs:element name="injury-info" type="IMInjuryInfo"/>
        <xs:element name="onboard-passengers" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="500">
                    <xs:element name="onboard-passenger" type="IMPerson"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="vehicle-damage" type="IM-VehicleDamage" minOccurs="0"/>
        <xs:element name="number-passengers-onboard" type="IM-VehicleOccupantCount" minOccurs="0"/>
        <xs:element name="note" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="velocity-vector" type="OBBusVelocityVector" minOccurs="0"/>
        <xs:element name="block" type="SCHBlockIden" minOccurs="0"/>
        <xs:element name="run" type="SCHRunIden" minOccurs="0"/>
        <xs:element name="direction" type="SCH-RouteDirectionName" minOccurs="0"/>
        <xs:element name="vehicle-base" type="CPTTransitFacilityIden" minOccurs="0"/>
        <xs:element name="localIMPTVehicleInvolved" type="local:IMPTVehicleInvolved" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
  <!-- Frame IMPerson-->
  <xs:complexType name="IMPerson">
    <xs:sequence>
        <xs:element name="personID" type="IM-PersonIdentifier" minOccurs="0"/>
        <xs:element name="incident-roles">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10">
                    <xs:element name="incident-role" type="IM-RoleInIncident"/>
                </xs:sequence>
            </xs:complexType>
```

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        </xs:element>
        <xs:element name="firstName" type="CPT-PersonFirstName" minOccurs="0"/>
        <xs:element name="firstNameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="middleName" type="CPT-PersonMiddleName" minOccurs="0"/>
        <xs:element name="middleNameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="lastName" type="CPT-PersonLastName" minOccurs="0"/>
        <xs:element name="lastNameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="address" type="lrms:AddressPoint"/>
        <xs:element name="home-phone" type="IM-HomePhone"/>
        <xs:element name="work-phone" type="IM-WorkPhone" minOccurs="0"/>
        <xs:element name="gender" type="CPT-Sex" minOccurs="0"/>
        <xs:element name="age" type="IM-Age" minOccurs="0"/>
        <xs:element name="note" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="noteLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="localIMPerson" type="local:IMPerson" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTPTVehicleBase-->
<xs:complexType name="CPTPTVehicleBase">
    <xs:sequence>
        <xs:element name="facility" type="CPTTransitFacilityIden"/>
        <xs:element name="vehType" type="CPT-PTVehicleType" minOccurs="0"/>
        <xs:element name="vehBaseCapacity" type="CPT-PTVehicleBaseCapacity" minOccurs="0"/>
        <xs:element name="footnote" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="footnoteLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame IMInjuryInfo-->
<xs:complexType name="IMInjuryInfo">
    <xs:sequence>
        <xs:element name="fatality-count" type="IM-HumanFatalityCount"/>
        <xs:element name="injury-count" type="IM-HumanInjuryCount"/>
        <xs:element name="damage-descs" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="damage-desc" type="IM-PropertyDamage"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
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        <xs:element name="reportingEmployee" type="CPTEmployeeIden" minOccurs="0"/>
        <xs:element name="incidentSourceText" type="CPT-Footnote" minOccurs="0"/>
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        <xs:element name="incidentSourceTextLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
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        <xs:element name="start-time" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="distributions" minOccurs="0">
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        <xs:element name="data-load-nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
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        <xs:element name="current-status" type="IM-CurrentStatus"/>
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        <xs:element name="tag" type="IM-VehicleTag" minOccurs="0"/>
        <xs:element name="state" type="IM-VehicleState" minOccurs="0"/>
        <xs:element name="make" type="IM-VehicleMake" minOccurs="0"/>
        <xs:element name="model" type="IM-VehicleModel" minOccurs="0"/>
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            <xs:element name="year" type="IM-VehicleYear" minOccurs="0"/>
            <xs:element name="color" type="IM-VehicleColor" minOccurs="0"/>
            <xs:element name="desc" type="IM-VehicleDescription" minOccurs="0"/>
            <xs:element name="descLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
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minOccurs="0"/>
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    </xs:complexType>
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            <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
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            <xs:element name="standing" type="CPT-PTVStandingCapacity" minOccurs="0"/>
            <xs:element name="wheelChair" type="CPT-PTVWheelChairCapacity" minOccurs="0"/>
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            <xs:element name="vehicleAttributes" minOccurs="0">
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            <xs:element name="model" type="CPT-Model" minOccurs="0"/>
            <xs:element name="modelLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="modelYear" type="CPT-VehicleModelYear"/>
            <xs:element name="rehabDate" type="CPT-Date" minOccurs="0"/>
            <xs:element name="registration" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="registrationLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
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        <xs:element name="metadata" type="CPTRowMetaData" minOccurs="0"/>
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        <xs:element name="latest-access" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="localFCFareboxAccessPermission" type="local:FCFareboxAccessPermission"
minOccurs="0"/>
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        <xs:element name="polling-group" type="CC-PollingGroup"/>
        <xs:element name="data-requested" type="CC-PollDataRequested"/>
        <xs:element name="agency-data" type="CC-AgencyData" minOccurs="0"/>
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            <xs:element name="longitude" type="lrms:Longitude"/>
            <xs:element name="heading" type="SP-AngularDirection" minOccurs="0"/>
            <xs:element name="speed" type="OB-J1587-VelocityVectorSpeed" minOccurs="0"/>
            <xs:element name="statusMap" type="CC-PollResponseStatus"/>
            <xs:element name="time" type="CPT-DateTime" minOccurs="0"/>
            <xs:element name="activeAlarms" minOccurs="0">
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            <xs:element name="lastStoppoint" type="CPTStoppointIden" minOccurs="0"/>
            <xs:element name="lastTimepointTime" type="SCH-Time" minOccurs="0"/>
            <xs:element name="lastTimepointOffSched" type="CPT-Duration" minOccurs="0"/>
            <xs:element name="currentPattern" type="SCHPatternIden" minOccurs="0"/>
            <xs:element name="currentSegment" type="SCHPatternSegmentIden" minOccurs="0"/>
            <xs:element name="passengerCount" type="OB-J1587-PassengerCounterPatronCount"
minOccurs="0"/>
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            <xs:element name="point" type="SCHTimeStoppoint"/>
            <xs:element name="patternID" type="SCHPatternIden"/>
            <xs:element name="route" type="SCHRouteIden"/>
            <xs:element name="routeDirection" type="SCH-RouteDirectionName" minOccurs="0"/>
            <xs:element name="routeDirectionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="destination" type="PI-DMSMessage" minOccurs="0"/>
            <xs:element name="destinationLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="gate-bay" type="CPT-GenericCounter" minOccurs="0"/>
            <xs:element name="trip" type="SCHTripIden" minOccurs="0"/>
            <xs:element name="vehicle" type="CPTVehicleIden" minOccurs="0"/>
            <xs:element name="distIntoPattern" type="lrms:Distance" minOccurs="0"/>
            <xs:element name="points">
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            <xs:element name="stoppointA" type="CPTStoppointIden" minOccurs="0"/>
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            <xs:element name="timepointA" type="SCHTimepointIden" minOccurs="0"/>
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            <xs:element name="pattern" type="SCHPatternIden" minOccurs="0"/>
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            <xs:element name="running-time" type="CPT-Duration"/>
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        <xs:element name="field-address" type="CPT-IPAddress" minOccurs="0"/>
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        <xs:element name="version-number" type="CPT-FileVersion"/>
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        <xs:element name="requestID" type="SCP-PriorityRequestID" minOccurs="0"/>
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        <xs:element name="disposition-time" type="CPT-DateTime" minOccurs="0"/>
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        <xs:element name="map-headline" type="CPT-Footnote" minOccurs="0"/>
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            </xs:complexType>
        </xs:element>
        <xs:element name="localPIRouteInfo" type="local:PIRouteInfo" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIService-->
<xs:complexType name="PIService">
    <xs:sequence>
        <xs:element name="route" type="SCHRouteIden"/>
        <xs:element name="modes">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10">
                    <xs:element name="mode" type="CPT-Mode"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIAccessibility-->
<xs:complexType name="PIAccessibility">
    <xs:sequence>
        <xs:element name="vehicleAttribute" type="CPT-PTVehicleAttribute"/>
        <xs:element name="stopAttribute" type="CPT-StoppointAttribute"/>
        <xs:element name="adaAttribute" type="PI-ADAAccess"/>
        <xs:element name="activation-date" type="CPT-Date" minOccurs="0"/>
        <xs:element name="activation-time" type="CPT-Time" minOccurs="0"/>
        <xs:element name="deactivation-date" type="CPT-Date" minOccurs="0"/>
        <xs:element name="deactivation-time" type="CPT-Time" minOccurs="0"/>
        <xs:element name="avail-times" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="avail-time" type="PIAvailablePeriod"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="applicable-agency" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="applicable-route" type="SCHRouteIden" minOccurs="0"/>
        <xs:element name="applicable-stoppoint" type="CPTStoppointIden" minOccurs="0"/>
        <xs:element name="modes" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="10">
                    <xs:element name="mode" type="CPT-Mode"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIAvailablePeriod-->
<xs:complexType name="PIAvailablePeriod">
    <xs:sequence>
```

```
        <xs:element name="day-types">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="20">
                    <xs:element name="day-type" type="SCH-DayType"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="begin-time" type="CPT-DateTime" minOccurs="0"/>
        <xs:element name="end-time" type="CPT-Time" minOccurs="0"/>
        <xs:element name="time-name" type="CPT-TimeName" minOccurs="0"/>
        <xs:element name="time-nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIGeoZone-->
<xs:complexType name="PIGeoZone">
    <xs:sequence>
        <xs:element name="zone" type="PIGeoZoneIden"/>
        <xs:element name="zone-boundary" type="SPPolygon"/>
        <xs:element name="localPIGeoZone" type="local:PIGeoZone" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIGeoZoneIden-->
<xs:complexType name="PIGeoZoneIden">
    <xs:sequence>
        <xs:element name="id" type="PI-GeoZoneID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="states">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="50">
                    <xs:element name="state" type="lrms:Text-name255"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="name" type="PI-GeoZoneName"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLang" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame PIAgencyStaticFile-->
<xs:complexType name="PIAgencyStaticFile">
    <xs:sequence>
        <xs:element name="agency-id" type="CPT-AgencyID"/>
        <xs:element name="name" type="CPT-AgencyName"/>
        <xs:element name="file-headline" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="file-name" type="CPT-Footnote"/>
        <xs:element name="file-nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="description" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="descriptionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
```

```
            <xs:element name="applicability" type="CPTFileApplicability" minOccurs="0"/>
            <xs:element name="retrievalURL" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="retrieval-application" type="CPT-ApplicationID" minOccurs="0"/>
            <xs:element name="retrievalIP" type="CPT-IPAddress" minOccurs="0"/>
            <xs:element name="retrievalPort" type="CPT-UDP-TCP-PortNumber" minOccurs="0"/>
            <xs:element name="retrieval-instructions" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="retrieval-instructionsLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="file-content" type="CPT-FileContent" minOccurs="0"/>
            <xs:element name="activation" type="CPT-DateTime" minOccurs="0"/>
            <xs:element name="deactivation" type="CPT-DateTime" minOccurs="0"/>
            <xs:element name="localPIAgencyStaticFile" type="local:PIAgencyStaticFile" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Frame PIAgencyProfile-->
    <xs:complexType name="PIAgencyProfile">
        <xs:sequence>
            <xs:element name="agency-id" type="CPT-AgencyID"/>
            <xs:element name="name" type="CPT-AgencyName"/>
            <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="feedback-email" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="public-contact-phone" type="CPT-PhoneNumber" minOccurs="0"/>
            <xs:element name="public-contact-fax" type="CPT-PhoneNumber" minOccurs="0"/>
            <xs:element name="public-contact-addr" type="lrms:AddressPoint"/>
            <xs:element name="public-contact-email" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="public-websiteURL" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="customer-serviceURL" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="trip-plannerURL" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="operation-times" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="operation-timesLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="agency-description" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="agency-descriptionLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="handicap-access-description" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="handicap-access-descriptionLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="fare-range-description" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="fare-range-descriptionLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="ticket-locations" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="ticket-locationLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="customer-group-served" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="customer-group-servedLangs" type="CPTAdditionalLanguageContents"
minOccurs="0"/>
            <xs:element name="fleet-description" type="CPT-Footnote" minOccurs="0"/>
            <xs:element name="fleet-descriptionLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
            <xs:element name="modes" minOccurs="0">
                <xs:complexType>
                    <xs:sequence minOccurs="1" maxOccurs="20">
                        <xs:element name="mode" type="CPT-Mode"/>
                    </xs:sequence>
```

```
            </xs:complexType>
        </xs:element>
        <xs:element name="status" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="statusLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="service-zones" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="100">
                    <xs:element name="service-zone" type="PIGeoZoneIden"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="service-area" type="SPPolygon" minOccurs="0"/>
        <xs:element name="static-files" minOccurs="0">
            <xs:complexType>
                <xs:sequence minOccurs="1" maxOccurs="1000">
                    <xs:element name="static-file" type="PIAgencyStaticFile"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="localPIAgencyProfile" type="local:PIAgencyProfile" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame IMIncidentIden-->
<xs:complexType name="IMIncidentIden">
    <xs:sequence>
        <xs:element name="id" type="IM-IncidentID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="external-id" type="im:ReferenceID"/>
        <xs:element name="external-id-agency" type="CPT-AgencyDesignator"/>
        <xs:element name="agdesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="name" type="CPT-GenericName" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="desig" type="CPTGenericIden" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Frame CPTEmployeeIden-->
<xs:complexType name="CPTEmployeeIden">
    <xs:sequence>
        <xs:element name="id" type="CPT-EmployeeID"/>
        <xs:element name="ag" type="CPT-AgencyID" minOccurs="0"/>
        <xs:element name="ssn" type="CPT-SSN" minOccurs="0"/>
        <xs:element name="firstName" type="CPT-PersonFirstName" minOccurs="0"/>
        <xs:element name="firstNameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="middleName" type="CPT-PersonMiddleName" minOccurs="0"/>
        <xs:element name="middleNameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="lastName" type="CPT-PersonLastName" minOccurs="0"/>
        <xs:element name="lastNameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="userLoginName" type="CPT-Footnote" minOccurs="0"/>
        <xs:element name="name" type="IM-PersonIdentifier" minOccurs="0"/>
```

```
        <xs:element name="desig" type="CPT-GenericDesignator" minOccurs="0"/>
        <xs:element name="desigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="agDesig" type="CPT-AgencyDesignator" minOccurs="0"/>
        <xs:element name="agdesigLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
        <xs:element name="nameLangs" type="CPTAdditionalLanguageContents" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!-- Element CPT-PhotographName-->
<xs:simpleType name="CPT-PhotographName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-PhotographID-->
<xs:simpleType name="CPT-PhotographID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-AgreementName-->
<xs:simpleType name="CPT-AgreementName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-AgreementID-->
<xs:simpleType name="CPT-AgreementID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-FacilityEntranceName-->
<xs:simpleType name="CPT-FacilityEntranceName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-FacilityEntranceID-->
<xs:simpleType name="CPT-FacilityEntranceID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-ConstructionPermitName-->
<xs:simpleType name="CPT-ConstructionPermitName">
```

```
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-ConstructionPermitID-->
<xs:simpleType name="CPT-ConstructionPermitID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-GenericID-->
<xs:simpleType name="CPT-GenericID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="60"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-TransmissionID-->
<xs:simpleType name="CPT-TransmissionID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="40"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-EngineID-->
<xs:simpleType name="CPT-EngineID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="40"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SCH-EventID-->
<xs:simpleType name="SCH-EventID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-GenericDesignator-->
<xs:simpleType name="CPT-GenericDesignator">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element PI-GTFSNormalizedDistance-->
<xs:simpleType name="PI-GTFSNormalizedDistance">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
```

```
            <xs:maxLength value="10"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-GTFSLongitude-->
    <xs:simpleType name="PI-GTFSLongitude">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="20"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-GTFSLatitude-->
    <xs:simpleType name="PI-GTFSLatitude">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="20"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-GTFSRouteDesc-->
    <xs:simpleType name="PI-GTFSRouteDesc">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="40"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-GTFSTimeZone-->
    <xs:simpleType name="PI-GTFSTimeZone">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="60"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CC-TrainDefectType-->
    <xs:simpleType name="CC-TrainDefectType">
        <xs:annotation>
            <xs:appinfo>
flatWheel (1)
hotBearing (2)
hotWheel (3)
tooWide (4)
tooHigh (5)
draggingEquipment (6)
fire (7)
noise (8)
smoke (9)
leaking (10)
 -- 11-128 reserved
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
```

```
                <xs:minInclusive value="1"/>
                <xs:maxInclusive value="10"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="flatWheel"/>
                <xs:enumeration value="hotBearing"/>
                <xs:enumeration value="hotWheel"/>
                <xs:enumeration value="tooWide"/>
                <xs:enumeration value="tooHigh"/>
                <xs:enumeration value="draggingEquipment"/>
                <xs:enumeration value="fire"/>
                <xs:enumeration value="noise"/>
                <xs:enumeration value="smoke"/>
                <xs:enumeration value="leaking"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element SCH-ConsistChangeType-->
<xs:simpleType name="SCH-ConsistChangeType">
    <xs:annotation>
        <xs:appinfo>
addCars (1) -- add cars to the train consist
cutCars (2) -- remove cars from the train consist
replace (3) -- substitute cars in the train's consist
 -- 4-127 reserved
</xs:appinfo>
    </xs:annotation>
    <xs:union>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="1"/>
                <xs:maxInclusive value="3"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="addCars"/>
                <xs:enumeration value="cutCars"/>
                <xs:enumeration value="replace"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element CPT-DetectorID-->
<xs:simpleType name="CPT-DetectorID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="40"/>
```

```
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-TrainID-->
    <xs:simpleType name="CPT-TrainID">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="40"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-AirConditionerID-->
    <xs:simpleType name="CPT-AirConditionerID">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="40"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-TruckID-->
    <xs:simpleType name="CPT-TruckID">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="40"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CC-ConfigurationData-->
    <xs:complexType name="CC-ConfigurationData">
        <xs:simpleContent>
            <xs:extension base="CC-ConfigurationData-string">
                <xs:attribute name="EncodingType" use="required">
                    <xs:simpleType>
                        <xs:restriction base="xs:NMTOKEN">
                            <xs:enumeration value="base64Binary"/>
                        </xs:restriction>
                    </xs:simpleType>
                </xs:attribute>
            </xs:extension>
        </xs:simpleContent>
    </xs:complexType>
    <xs:simpleType name="CC-ConfigurationData-string">
        <xs:restriction base="xs:base64Binary">
            <xs:minLength value="2"/>
            <xs:maxLength value="2680000"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SCP-NTCIP-1211-Scenario-->
    <xs:simpleType name="SCP-NTCIP-1211-Scenario">
        <xs:annotation>
            <xs:appinfo>
scenario1 (1) -- per NTCIP 1211
scenario2 (2) -- per NTICP 1211
scenario3 (3) -- per NTCIP 1211
scenario4 (4) -- per NTCIP 1211
```

```
scenario5 (5)
 -- 6-100 reserved
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="5"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="scenario1"/>
                    <xs:enumeration value="scenario2"/>
                    <xs:enumeration value="scenario3"/>
                    <xs:enumeration value="scenario4"/>
                    <xs:enumeration value="scenario5"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CPT-IPAddress-->
    <xs:simpleType name="CPT-IPAddress">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="80"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-UDP-TCP-PortNumber-->
    <xs:simpleType name="CPT-UDP-TCP-PortNumber">
        <xs:restriction base="xs:unsignedByte"/>
    </xs:simpleType>
    <!-- Element SCP-PriorityStrategyNumber-->
    <xs:simpleType name="SCP-PriorityStrategyNumber">
        <xs:restriction base="xs:unsignedByte"/>
    </xs:simpleType>
    <!-- Element CPT-LoadStopReason-->
    <xs:simpleType name="CPT-LoadStopReason">
        <xs:annotation>
            <xs:appinfo>
load-Complete (0)
communications-Error (1)
memory-Problem (3)
timeout (4)
badfile (5)
badFileRequest (6)
 -- 127-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
```

```
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="0"/>
                    <xs:maxInclusive value="6"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="load-Complete"/>
                    <xs:enumeration value="communications-Error"/>
                    <xs:enumeration value="memory-Problem"/>
                    <xs:enumeration value="timeout"/>
                    <xs:enumeration value="badfile"/>
                    <xs:enumeration value="badFileRequest"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:CPT-LoadStopReason"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CC-ManualAlarmID-->
    <xs:simpleType name="CC-ManualAlarmID">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element CC-AlarmText-->
    <xs:simpleType name="CC-AlarmText">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element OB-MenuItemText-->
    <xs:simpleType name="OB-MenuItemText">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="16"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-LostItemDisposition-->
    <xs:simpleType name="PI-LostItemDisposition">
        <xs:annotation>
            <xs:appinfo>
stored (1)
```

```
returned-to-owner (2)
to-police (3)
to-animal-control (4)
unknown (5)
discarded (6)
to-charity (7)
lost-by-agency (8)
 -- 9-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="8"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="stored"/>
                    <xs:enumeration value="returned-to-owner"/>
                    <xs:enumeration value="to-police"/>
                    <xs:enumeration value="to-animal-control"/>
                    <xs:enumeration value="unknown"/>
                    <xs:enumeration value="discarded"/>
                    <xs:enumeration value="to-charity"/>
                    <xs:enumeration value="lost-by-agency"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:PI-LostItemDisposition"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CPT-HealthStatus-->
    <xs:simpleType name="CPT-HealthStatus">
        <xs:annotation>
            <xs:appinfo>
health-ok (1)
power-fal (2) -- shutting door last gasp report
power-restore (3) -- starting up
out-of-paper (4)
memory-problem (5)
overheating (6)
```

```
out-of-ink (7)
high-humidity (8)
application-fault (9)
operating-system-fault (10)
cpu-fault (12)
input-output-fault (13)
VAN-failure (14)
hub-failure (15)
radio-failure (16)
wlan-failure (17)
sensor-failure (18)
display-failure (19)
touchscreen-failure (20)
keyboard-failure (21)
commanded-shutdown (22)
out-of-service (23)
mechanical-fault (24)
vibration (25)
 -- 26-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="25"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="health-ok"/>
                    <xs:enumeration value="power-fal"/>
                    <xs:enumeration value="power-restore"/>
                    <xs:enumeration value="out-of-paper"/>
                    <xs:enumeration value="memory-problem"/>
                    <xs:enumeration value="overheating"/>
                    <xs:enumeration value="out-of-ink"/>
                    <xs:enumeration value="high-humidity"/>
                    <xs:enumeration value="application-fault"/>
                    <xs:enumeration value="operating-system-fault"/>
                    <xs:enumeration value="cpu-fault"/>
                    <xs:enumeration value="input-output-fault"/>
                    <xs:enumeration value="VAN-failure"/>
                    <xs:enumeration value="hub-failure"/>
                    <xs:enumeration value="radio-failure"/>
                    <xs:enumeration value="wlan-failure"/>
                    <xs:enumeration value="sensor-failure"/>
                    <xs:enumeration value="display-failure"/>
                    <xs:enumeration value="touchscreen-failure"/>
                    <xs:enumeration value="keyboard-failure"/>
```

```
                <xs:enumeration value="commanded-shutdown"/>
                <xs:enumeration value="out-of-service"/>
                <xs:enumeration value="mechanical-fault"/>
                <xs:enumeration value="vibration"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:CPT-HealthStatus"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element CPT-PurchaseReqNumber-->
<xs:simpleType name="CPT-PurchaseReqNumber">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="60"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-CompanyName-->
<xs:simpleType name="CPT-CompanyName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="40"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CC-WorkorderNumber-->
<xs:simpleType name="CC-WorkorderNumber">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="60"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-SSN-->
<xs:simpleType name="CPT-SSN">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element PI-LostFoundItemID-->
<xs:simpleType name="PI-LostFoundItemID">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element CC-RequestDisposition-->
<xs:simpleType name="CC-RequestDisposition">
    <xs:annotation>
        <xs:appinfo>
approved (1)
```

```
acknowledged (2)
serviced (3)
timed-out (4)
denied (5)
requested (6)
 -- 7-100 reserved
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="6"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="approved"/>
                    <xs:enumeration value="acknowledged"/>
                    <xs:enumeration value="serviced"/>
                    <xs:enumeration value="timed-out"/>
                    <xs:enumeration value="denied"/>
                    <xs:enumeration value="requested"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element PI-DeliveryMechanism-->
    <xs:simpleType name="PI-DeliveryMechanism">
        <xs:annotation>
            <xs:appinfo>
mail (1)
email (2)
sms-cellphone (3)
sms-pager (4)
voice-homephone (5)
voice-cellphone (6)
voice-workphone (7)
fax (8)
 -- 9-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="8"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
```

```
                <xs:restriction base="xs:string">
                    <xs:enumeration value="mail"/>
                    <xs:enumeration value="email"/>
                    <xs:enumeration value="sms-cellphone"/>
                    <xs:enumeration value="sms-pager"/>
                    <xs:enumeration value="voice-homephone"/>
                    <xs:enumeration value="voice-cellphone"/>
                    <xs:enumeration value="voice-workphone"/>
                    <xs:enumeration value="fax"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:PI-DeliveryMechanism"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CPT-TimeName-->
    <xs:simpleType name="CPT-TimeName">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="12"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-CustomerSubscriptionType-->
    <xs:simpleType name="PI-CustomerSubscriptionType">
        <xs:annotation>
            <xs:appinfo>
newsletter (1)
service-bulletin (2)
service-changes (3)
 -- 4-100 reserved
 -- 101-200 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="3"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="newsletter"/>
                    <xs:enumeration value="service-bulletin"/>
```

```
                <xs:enumeration value="service-changes"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="101"/>
                <xs:maxInclusive value="200"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:PI-CustomerSubscriptionType"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element TSP-GrantType-->
<xs:simpleType name="TSP-GrantType">
    <xs:annotation>
        <xs:appinfo>
early-green (1)
green-extension (2)
phase-rotation (3)
 -- 4-127 reserved
 -- 128-255 local content
</xs:appinfo>
    </xs:annotation>
    <xs:union>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="1"/>
                <xs:maxInclusive value="3"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="early-green"/>
                <xs:enumeration value="green-extension"/>
                <xs:enumeration value="phase-rotation"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:TSP-GrantType"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element FC-SCObjectType-->
```

```
    <xs:simpleType name="FC-SCObjectType">
        <xs:annotation>
            <xs:appinfo>
directory-index (1)
transit-app-profile (2)
picc-holder-profile (3)
product-index (4)
product-object (5)
add-value-history (6)
transaction-history (7)
security-key-set (8)
 -- 100-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="8"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="directory-index"/>
                    <xs:enumeration value="transit-app-profile"/>
                    <xs:enumeration value="picc-holder-profile"/>
                    <xs:enumeration value="product-index"/>
                    <xs:enumeration value="product-object"/>
                    <xs:enumeration value="add-value-history"/>
                    <xs:enumeration value="transaction-history"/>
                    <xs:enumeration value="security-key-set"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:FC-SCObjectType"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element FC-SCObjectCarrier-->
    <xs:complexType name="FC-SCObjectCarrier">
        <xs:simpleContent>
            <xs:extension base="FC-SCObjectCarrier-string">
                <xs:attribute name="EncodingType" use="required">
                    <xs:simpleType>
```

```
                    <xs:restriction base="xs:NMTOKEN">
                        <xs:enumeration value="base64Binary"/>
                    </xs:restriction>
                </xs:simpleType>
            </xs:attribute>
        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
<xs:simpleType name="FC-SCObjectCarrier-string">
    <xs:restriction base="xs:base64Binary">
        <xs:minLength value="2"/>
        <xs:maxLength value="21"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element FC-FareZoneName-->
<xs:simpleType name="FC-FareZoneName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element FC-ActionTypeUTFS-->
<xs:simpleType name="FC-ActionTypeUTFS">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element SP-QualityLevel-->
<xs:simpleType name="SP-QualityLevel">
    <xs:annotation>
        <xs:appinfo>
high (1) -- high quality data
medium (2) -- medium quality data
low (3) -- low quality data
invalid (4) -- data is not available or usable
 -- 5-127 reserved
 -- 128-255 local content
</xs:appinfo>
    </xs:annotation>
    <xs:union>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="1"/>
                <xs:maxInclusive value="4"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="high"/>
                <xs:enumeration value="medium"/>
                <xs:enumeration value="low"/>
                <xs:enumeration value="invalid"/>
            </xs:restriction>
```

```
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:SP-QualityLevel"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element FC-TurnstileID-->
    <xs:simpleType name="FC-TurnstileID">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-GroupName-->
    <xs:simpleType name="CPT-GroupName">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="40"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element FC-FareEquipmentSubset-->
    <xs:simpleType name="FC-FareEquipmentSubset">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element FC-PolicyType-->
    <xs:simpleType name="FC-PolicyType">
        <xs:annotation>
            <xs:appinfo>
media-sale (1)
transfer-allowed (2)
fare-charge (3)
media-load (4)
parking (5)
 -- 6-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="5"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
```

```
                <xs:restriction base="xs:string">
                    <xs:enumeration value="media-sale"/>
                    <xs:enumeration value="transfer-allowed"/>
                    <xs:enumeration value="fare-charge"/>
                    <xs:enumeration value="media-load"/>
                    <xs:enumeration value="parking"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:FC-PolicyType"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element FC-MultipleTripType-->
    <xs:simpleType name="FC-MultipleTripType">
        <xs:annotation>
            <xs:appinfo>
daily (1)
ten-trip (2)
twenty-trip (3)
two-trip (4)
pass (5)
nth-ride-free (6)
 -- 7-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="6"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="daily"/>
                    <xs:enumeration value="ten-trip"/>
                    <xs:enumeration value="twenty-trip"/>
                    <xs:enumeration value="two-trip"/>
                    <xs:enumeration value="pass"/>
                    <xs:enumeration value="nth-ride-free"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
```

```
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:FC-MultipleTripType"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element FC-ParkingCostType-->
    <xs:simpleType name="FC-ParkingCostType">
        <xs:annotation>
            <xs:appinfo>
hourly (1)
half-hourly (2)
daily (3)
weekly (4)
overnight (5)
annual (6)
 -- 7-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="6"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="hourly"/>
                    <xs:enumeration value="half-hourly"/>
                    <xs:enumeration value="daily"/>
                    <xs:enumeration value="weekly"/>
                    <xs:enumeration value="overnight"/>
                    <xs:enumeration value="annual"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:FC-ParkingCostType"/>
            </xs:simpleType>
        </xs:union>
```

```
    </xs:simpleType>
    <!-- Element FC-DiscountType-->
    <xs:simpleType name="FC-DiscountType">
        <xs:annotation>
            <xs:appinfo>
senior (1)
handicap (2)
veteran (3)
smartcard (4)
multitrip (5)
weekend (6)
holiday (7)
special-offer1 (8)
special-offer2 (9)
special-offer3 (10)
 -- 11-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="10"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="senior"/>
                    <xs:enumeration value="handicap"/>
                    <xs:enumeration value="veteran"/>
                    <xs:enumeration value="smartcard"/>
                    <xs:enumeration value="multitrip"/>
                    <xs:enumeration value="weekend"/>
                    <xs:enumeration value="holiday"/>
                    <xs:enumeration value="special-offer1"/>
                    <xs:enumeration value="special-offer2"/>
                    <xs:enumeration value="special-offer3"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:FC-DiscountType"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
```

```
    <!-- Element FC-FareBasis-->
    <xs:simpleType name="FC-FareBasis">
        <xs:annotation>
            <xs:appinfo>
byTrip (1)
withinZone (2)
interZone (3)
distance (4)
direction (5)
board-location (6)
peak-trip (7)
off-peak-trip (8)
 -- 9-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="8"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="byTrip"/>
                    <xs:enumeration value="withinZone"/>
                    <xs:enumeration value="interZone"/>
                    <xs:enumeration value="distance"/>
                    <xs:enumeration value="direction"/>
                    <xs:enumeration value="board-location"/>
                    <xs:enumeration value="peak-trip"/>
                    <xs:enumeration value="off-peak-trip"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:FC-FareBasis"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element FC-VehicleType-->
    <xs:simpleType name="FC-VehicleType">
        <xs:annotation>
            <xs:appinfo>
anyType (1)
```

```
passengerCar (2)
morotcycle (3)
pickupTruck (4)
suv (5)
trailer (6)
car-and-trailer (7)
truck-and-trailer (8)
truck (9)
semi-truck (10)
 -- 11-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="10"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="anyType"/>
                    <xs:enumeration value="passengerCar"/>
                    <xs:enumeration value="morotcycle"/>
                    <xs:enumeration value="pickupTruck"/>
                    <xs:enumeration value="suv"/>
                    <xs:enumeration value="trailer"/>
                    <xs:enumeration value="car-and-trailer"/>
                    <xs:enumeration value="truck-and-trailer"/>
                    <xs:enumeration value="truck"/>
                    <xs:enumeration value="semi-truck"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:FC-VehicleType"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element FC-FarePolicyName-->
    <xs:simpleType name="FC-FarePolicyName">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
```

```
    </xs:simpleType>
    <!-- Element FC-FarePolicyID-->
    <xs:simpleType name="FC-FarePolicyID">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element FC-MonetaryValue-->
    <xs:simpleType name="FC-MonetaryValue">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element IM-IncidentProcedure-->
    <xs:simpleType name="IM-IncidentProcedure">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="50000"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-SeatCount-->
    <xs:simpleType name="CPT-SeatCount">
        <xs:restriction base="xs:unsignedShort"/>
    </xs:simpleType>
    <!-- Element CC-CallStatus-->
    <xs:simpleType name="CC-CallStatus">
        <xs:annotation>
            <xs:appinfo>
denied (0)
connect (1)
disconnect (2)
 -- 3-100 reserved
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="0"/>
                    <xs:maxInclusive value="2"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="denied"/>
                    <xs:enumeration value="connect"/>
                    <xs:enumeration value="disconnect"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CC-AdherenceMsgType-->
    <xs:simpleType name="CC-AdherenceMsgType">
```

```
        <xs:annotation>
            <xs:appinfo>
InitialNoException (0)
InitialLate (1)
InitialEarly (2)
InitialLateOffRoute (3)
InitialEarlyOffRoute (4)
InitialOffRoute (5)
becameLate (10)
becameEarly (11)
recoveredLate (12) -- no longer late
recoveredEarly (13) -- no longer early
becameOffRoute (20)
recoveredOffRoute (21)
 -- 22-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="0"/>
                    <xs:maxInclusive value="21"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="InitialNoException"/>
                    <xs:enumeration value="InitialLate"/>
                    <xs:enumeration value="InitialEarly"/>
                    <xs:enumeration value="InitialLateOffRoute"/>
                    <xs:enumeration value="InitialEarlyOffRoute"/>
                    <xs:enumeration value="InitialOffRoute"/>
                    <xs:enumeration value="becameLate"/>
                    <xs:enumeration value="becameEarly"/>
                    <xs:enumeration value="recoveredLate"/>
                    <xs:enumeration value="recoveredEarly"/>
                    <xs:enumeration value="becameOffRoute"/>
                    <xs:enumeration value="recoveredOffRoute"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:CC-AdherenceMsgType"/>
            </xs:simpleType>
        </xs:union>
```

```
    </xs:simpleType>
    <!-- Element OB-MenuSelection-->
    <xs:simpleType name="OB-MenuSelection">
        <xs:annotation>
            <xs:appinfo>
reserved (0)
menu-item-1Selected (1)
menu-item-2Selected (2)
menu-item-3Selected (3)
menu-item-4Selected (4)
menu-item-5Selected (5)
menu-item-6Selected (6)
menu-item-7Selected (7)
menu-item-8Selected (8)
menu-item-9Selected (9)
menu-item-10Selected (10)
Reserved11 (11)
Reserved12 (12)
Reserved13 (13)
Reserved14 (14)
Timeout (15)
MDT-unable-to-process-request (16)
Request-invalid (17)
 -- 19-100 reserved
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="0"/>
                    <xs:maxInclusive value="17"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="reserved"/>
                    <xs:enumeration value="menu-item-1Selected"/>
                    <xs:enumeration value="menu-item-2Selected"/>
                    <xs:enumeration value="menu-item-3Selected"/>
                    <xs:enumeration value="menu-item-4Selected"/>
                    <xs:enumeration value="menu-item-5Selected"/>
                    <xs:enumeration value="menu-item-6Selected"/>
                    <xs:enumeration value="menu-item-7Selected"/>
                    <xs:enumeration value="menu-item-8Selected"/>
                    <xs:enumeration value="menu-item-9Selected"/>
                    <xs:enumeration value="menu-item-10Selected"/>
                    <xs:enumeration value="Reserved11"/>
                    <xs:enumeration value="Reserved12"/>
                    <xs:enumeration value="Reserved13"/>
                    <xs:enumeration value="Reserved14"/>
                    <xs:enumeration value="Timeout"/>
```

```
                <xs:enumeration value="MDT-unable-to-process-request"/>
                <xs:enumeration value="Request-invalid"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element CC-DestinationMessageID-->
<xs:simpleType name="CC-DestinationMessageID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CC-ExecutableSoftware-->
<xs:complexType name="CC-ExecutableSoftware">
    <xs:simpleContent>
        <xs:extension base="CC-ExecutableSoftware-string">
            <xs:attribute name="EncodingType" use="required">
                <xs:simpleType>
                    <xs:restriction base="xs:NMTOKEN">
                        <xs:enumeration value="base64Binary"/>
                    </xs:restriction>
                </xs:simpleType>
            </xs:attribute>
        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
<xs:simpleType name="CC-ExecutableSoftware-string">
    <xs:restriction base="xs:base64Binary">
        <xs:minLength value="2"/>
        <xs:maxLength value="2680000"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CC-CannedMsgID-->
<xs:simpleType name="CC-CannedMsgID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CC-CannedMsgTakeListID-->
<xs:simpleType name="CC-CannedMsgTakeListID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CC-CannedMsgTakeID-->
<xs:simpleType name="CC-CannedMsgTakeID">
    <xs:restriction base="xs:unsignedShort"/>
</xs:simpleType>
```

```
    <!-- Element OB-TextMessage-->
    <xs:simpleType name="OB-TextMessage">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element OB-Parameter-->
    <xs:complexType name="OB-Parameter">
        <xs:simpleContent>
            <xs:extension base="OB-Parameter-string">
                <xs:attribute name="EncodingType" use="required">
                    <xs:simpleType>
                        <xs:restriction base="xs:NMTOKEN">
                            <xs:enumeration value="base64Binary"/>
                        </xs:restriction>
                    </xs:simpleType>
                </xs:attribute>
            </xs:extension>
        </xs:simpleContent>
    </xs:complexType>
    <xs:simpleType name="OB-Parameter-string">
        <xs:restriction base="xs:base64Binary">
            <xs:minLength value="2"/>
            <xs:maxLength value="21"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-FileVersion-->
    <xs:simpleType name="CPT-FileVersion">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element CPT-FileSize-->
    <xs:simpleType name="CPT-FileSize">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element OB-LocationReportReason-->
    <xs:simpleType name="OB-LocationReportReason">
        <xs:annotation>
            <xs:appinfo>
initialReport (1)
timepoint (2)
arrivestop (3)
departstop (4)
timeout (5)
event-location (6)
starttrip (7)
endtrip (8)
adherence-on-sched (9)
adherence-off-sched (10)
adherence-on-route (11)
adherence-off-route (12)
```

```
 -- 13-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="12"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="initialReport"/>
                    <xs:enumeration value="timepoint"/>
                    <xs:enumeration value="arrivestop"/>
                    <xs:enumeration value="departstop"/>
                    <xs:enumeration value="timeout"/>
                    <xs:enumeration value="event-location"/>
                    <xs:enumeration value="starttrip"/>
                    <xs:enumeration value="endtrip"/>
                    <xs:enumeration value="adherence-on-sched"/>
                    <xs:enumeration value="adherence-off-sched"/>
                    <xs:enumeration value="adherence-on-route"/>
                    <xs:enumeration value="adherence-off-route"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:OB-LocationReportReason"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CC-TravelerDenyReason-->
    <xs:simpleType name="CC-TravelerDenyReason">
        <xs:annotation>
            <xs:appinfo>
conn-prot-not-enabled (1)
invalid-request (2)
ptv-unavailable (3)
ptv-unreachable (4)
service-problems (5)
ptv-already-departed (6)
equipped-ptv-unavail (7)
 -- 8-127 reserved
 -- 128-255 local content
```

```
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="7"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="conn-prot-not-enabled"/>
                    <xs:enumeration value="invalid-request"/>
                    <xs:enumeration value="ptv-unavailable"/>
                    <xs:enumeration value="ptv-unreachable"/>
                    <xs:enumeration value="service-problems"/>
                    <xs:enumeration value="ptv-already-departed"/>
                    <xs:enumeration value="equipped-ptv-unavail"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:CC-TravelerDenyReason"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CC-TravelerRequestID-->
    <xs:simpleType name="CC-TravelerRequestID">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element CPT-StoppointSubset-->
    <xs:simpleType name="CPT-StoppointSubset">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element CPT-FleetSubset-->
    <xs:simpleType name="CPT-FleetSubset">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element IM-IncidentDistribution-->
    <xs:simpleType name="IM-IncidentDistribution">
        <xs:annotation>
            <xs:appinfo>
internal-only (1) -- only within the agency
transit-agency (2) -- within agency, but elsewhere also
county-police (3)
state-police (4)
```

```
all-police (5)
medical (6)
fire (7)
other-transit (8) -- other transit agencies
isps (9)
news-media (10)
city-police (11)
federal-law-enf (12)
local-police (13)
ambulance-units (14)
rescue-units (15)
fire-units (16)
hazmat-units (17)
light-tow-unit (18)
heavy-tow-unit (19)
freeway-service-patrol (20)
state-dot (21)
county-dot (22)
city-dot (23)
transit-maintenance (24)
 -- 26-100 reserved
 -- 101-200 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="24"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="internal-only"/>
                    <xs:enumeration value="transit-agency"/>
                    <xs:enumeration value="county-police"/>
                    <xs:enumeration value="state-police"/>
                    <xs:enumeration value="all-police"/>
                    <xs:enumeration value="medical"/>
                    <xs:enumeration value="fire"/>
                    <xs:enumeration value="other-transit"/>
                    <xs:enumeration value="isps"/>
                    <xs:enumeration value="news-media"/>
                    <xs:enumeration value="city-police"/>
                    <xs:enumeration value="federal-law-enf"/>
                    <xs:enumeration value="local-police"/>
                    <xs:enumeration value="ambulance-units"/>
                    <xs:enumeration value="rescue-units"/>
                    <xs:enumeration value="fire-units"/>
                    <xs:enumeration value="hazmat-units"/>
                    <xs:enumeration value="light-tow-unit"/>
```

```
                <xs:enumeration value="heavy-tow-unit"/>
                <xs:enumeration value="freeway-service-patrol"/>
                <xs:enumeration value="state-dot"/>
                <xs:enumeration value="county-dot"/>
                <xs:enumeration value="city-dot"/>
                <xs:enumeration value="transit-maintenance"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="101"/>
                <xs:maxInclusive value="200"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:IM-IncidentDistribution"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element PI-BinaryVideoData-->
<xs:complexType name="PI-BinaryVideoData">
    <xs:simpleContent>
        <xs:extension base="PI-BinaryVideoData-string">
            <xs:attribute name="EncodingType" use="required">
                <xs:simpleType>
                    <xs:restriction base="xs:NMTOKEN">
                        <xs:enumeration value="base64Binary"/>
                    </xs:restriction>
                </xs:simpleType>
            </xs:attribute>
        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
<xs:simpleType name="PI-BinaryVideoData-string">
    <xs:restriction base="xs:base64Binary">
        <xs:minLength value="2"/>
        <xs:maxLength value="2680000"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element PI-SoundID-->
<xs:simpleType name="PI-SoundID">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element PI-AudioFormat-->
<xs:simpleType name="PI-AudioFormat">
    <xs:annotation>
        <xs:appinfo>
WAV (1)
MP3 (3)
 -- 4-127 reserved
 -- 128-255 local content
```

```
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="3"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="WAV"/>
                    <xs:enumeration value="MP3"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:PI-AudioFormat"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element PI-GraphicFormat-->
    <xs:simpleType name="PI-GraphicFormat">
        <xs:annotation>
            <xs:appinfo>
GIF (1)
JPEG (2)
MPEG-3 (3)
MPEG-4 (4)
 -- 5-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="4"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="GIF"/>
                    <xs:enumeration value="JPEG"/>
                    <xs:enumeration value="MPEG-3"/>
                    <xs:enumeration value="MPEG-4"/>
```

```
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:PI-GraphicFormat"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element PI-BinaryImageData-->
<xs:complexType name="PI-BinaryImageData">
    <xs:simpleContent>
        <xs:extension base="PI-BinaryImageData-string">
            <xs:attribute name="EncodingType" use="required">
                <xs:simpleType>
                    <xs:restriction base="xs:NMTOKEN">
                        <xs:enumeration value="base64Binary"/>
                    </xs:restriction>
                </xs:simpleType>
            </xs:attribute>
        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
<xs:simpleType name="PI-BinaryImageData-string">
    <xs:restriction base="xs:base64Binary">
        <xs:minLength value="2"/>
        <xs:maxLength value="2680000"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element PI-PIDTakeText-->
<xs:simpleType name="PI-PIDTakeText">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element PI-ServiceStatusType-->
<xs:simpleType name="PI-ServiceStatusType">
    <xs:annotation>
        <xs:appinfo>
range (1)
countdown (2)
offSched (3)
departure (4)
 -- 5-127 reserved
 -- 128-255 local content
</xs:appinfo>
```

```
    </xs:annotation>
    <xs:union>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="1"/>
                <xs:maxInclusive value="4"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="range"/>
                <xs:enumeration value="countdown"/>
                <xs:enumeration value="offSched"/>
                <xs:enumeration value="departure"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:PI-ServiceStatusType"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element CPT-PhoneNumber-->
<xs:simpleType name="CPT-PhoneNumber">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="16"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-PersonLastName-->
<xs:simpleType name="CPT-PersonLastName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-PersonMiddleName-->
<xs:simpleType name="CPT-PersonMiddleName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-PersonFirstName-->
<xs:simpleType name="CPT-PersonFirstName">
    <xs:restriction base="xs:string">
```

```
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-SubscriptionType-->
    <xs:simpleType name="CPT-SubscriptionType">
        <xs:annotation>
            <xs:appinfo>
Query (1)
Periodic (2)
Event (3)
Cancel (99)
CancelAll (100)
 -- 128-255 reserved
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="100"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="Query"/>
                    <xs:enumeration value="Periodic"/>
                    <xs:enumeration value="Event"/>
                    <xs:enumeration value="Cancel"/>
                    <xs:enumeration value="CancelAll"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CPT-ApplicationID-->
    <xs:simpleType name="CPT-ApplicationID">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element CPT-Duration-->
    <xs:simpleType name="CPT-Duration">
        <xs:annotation>
            <xs:appinfo>Can be specified as a integer number or as xs:duration</xs:appinfo>
        </xs:annotation>
        <xs:union memberTypes="xs:unsignedInt xs:duration"/>
    </xs:simpleType>
    <!-- Element CPT-StoppointVersion-->
    <xs:simpleType name="CPT-StoppointVersion">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element CPT-RequestIdentifier-->
    <xs:simpleType name="CPT-RequestIdentifier">
```

```
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element CPT-ErrorDescription-->
    <xs:simpleType name="CPT-ErrorDescription">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-ErrorCode-->
    <xs:simpleType name="CPT-ErrorCode">
        <xs:annotation>
            <xs:appinfo>
nullData (1)
intentionalBlank (2)
deletedByDevice (3)
msgUnavailable (4)
illegalCalc (5)
deviceMalfunction (6)
msgExpired (7)
suppressedSecurity (8)
suppressedPrivacy (9)
unspecified (10)
vehicleShutdown (11)
unknownFile (12)
receiverCantProcess (13)
incompleteMessage (14)
fileCorrupt (15)
invalidPriority (51)
invalidFrequency (52)
invalidMode (53)
invalidDeliveryVerification (54)
cantDecrypt (55)
accessDenied (56)
excessLatency (57)
invalidMsgRef (58)
timeExpired (59)
dataUnavailable (60)
dataExpired (61)
valueOutOfRange (62)
pubNotRdy (63) -- publisher is not ready to process the request.
 -- 64-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="63"/>
                </xs:restriction>
```

```
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="nullData"/>
                <xs:enumeration value="intentionalBlank"/>
                <xs:enumeration value="deletedByDevice"/>
                <xs:enumeration value="msgUnavailable"/>
                <xs:enumeration value="illegalCalc"/>
                <xs:enumeration value="deviceMalfunction"/>
                <xs:enumeration value="msgExpired"/>
                <xs:enumeration value="suppressedSecurity"/>
                <xs:enumeration value="suppressedPrivacy"/>
                <xs:enumeration value="unspecified"/>
                <xs:enumeration value="vehicleShutdown"/>
                <xs:enumeration value="unknownFile"/>
                <xs:enumeration value="receiverCantProcess"/>
                <xs:enumeration value="incompleteMessage"/>
                <xs:enumeration value="fileCorrupt"/>
                <xs:enumeration value="invalidPriority"/>
                <xs:enumeration value="invalidFrequency"/>
                <xs:enumeration value="invalidMode"/>
                <xs:enumeration value="invalidDeliveryVerification"/>
                <xs:enumeration value="cantDecrypt"/>
                <xs:enumeration value="accessDenied"/>
                <xs:enumeration value="excessLatency"/>
                <xs:enumeration value="invalidMsgRef"/>
                <xs:enumeration value="timeExpired"/>
                <xs:enumeration value="dataUnavailable"/>
                <xs:enumeration value="dataExpired"/>
                <xs:enumeration value="valueOutOfRange"/>
                <xs:enumeration value="pubNotRdy"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:CPT-ErrorCode"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element CPT-Boolean-->
<xs:simpleType name="CPT-Boolean">
    <xs:restriction base="xs:boolean"/>
</xs:simpleType>
<!-- Element CC-PTVInspectionFault-->
<xs:simpleType name="CC-PTVInspectionFault">
    <xs:annotation>
```

```
            <xs:appinfo>
broken-seat (1) -- Broken seat
equip-air-conditioning (2) -- Equipment - air conditioning
equip-air-system (3) -- Equipment - air system
equip-brakes (4) -- Equipment - brakes
equip-chassis (5) -- Equipment - chassis/suspension
equip-cooling (6) -- Equipment - cooling system
equip-doors (7) -- Equipment -  doors
equip-electrical (8) -- Equipment - electrical
equip-engine (9) -- Equipment - engine
equip-exterior (10) -- Equipment - exterior/body
equip-fc (11) -- Equipment - fare collection
equip-fuel (12) -- Equipment - fuel/exhaust
equip-horn (13) -- Equipment - horn
equip-interior (14) -- Equipment - interior
equip-lift (15) -- Equipment - lift/kneeling
equip-lights (16) -- Equipment - lights
equip-lubrication (17) -- Equipment - lubrication
equip-communications (18) -- Equipment - radio/communication
equip-signs (19) -- Equipment - signs
equip-steering (20) -- Equipment - steering
equip-tires (21) -- Equipment - tires/wheels
equip-transmission (22) -- Equipment - transmission
equip-unknown-alarm (23) -- Equipment - unknown alarm
equip-wipers (24) -- Equipment - wipers
etch-glass (25) -- Etch glass
broken-glass (26)
interior-dirty (27)
exterior-dirty (28)
 -- 29-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="28"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="broken-seat"/>
                    <xs:enumeration value="equip-air-conditioning"/>
                    <xs:enumeration value="equip-air-system"/>
                    <xs:enumeration value="equip-brakes"/>
                    <xs:enumeration value="equip-chassis"/>
                    <xs:enumeration value="equip-cooling"/>
                    <xs:enumeration value="equip-doors"/>
                    <xs:enumeration value="equip-electrical"/>
                    <xs:enumeration value="equip-engine"/>
```

```
                <xs:enumeration value="equip-exterior"/>
                <xs:enumeration value="equip-fc"/>
                <xs:enumeration value="equip-fuel"/>
                <xs:enumeration value="equip-horn"/>
                <xs:enumeration value="equip-interior"/>
                <xs:enumeration value="equip-lift"/>
                <xs:enumeration value="equip-lights"/>
                <xs:enumeration value="equip-lubrication"/>
                <xs:enumeration value="equip-communications"/>
                <xs:enumeration value="equip-signs"/>
                <xs:enumeration value="equip-steering"/>
                <xs:enumeration value="equip-tires"/>
                <xs:enumeration value="equip-transmission"/>
                <xs:enumeration value="equip-unknown-alarm"/>
                <xs:enumeration value="equip-wipers"/>
                <xs:enumeration value="etch-glass"/>
                <xs:enumeration value="broken-glass"/>
                <xs:enumeration value="interior-dirty"/>
                <xs:enumeration value="exterior-dirty"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:CC-PTVInspectionFault"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element CPT-StopPlacement-->
<xs:simpleType name="CPT-StopPlacement">
    <xs:annotation>
        <xs:appinfo>
nearside (1)
farside (2)
mid-block (3)
at (4)
between (5)
farside-mid-block (6)
nearside-mid-block (7)
opposite (8)
 -- 9-100 reserved
 -- 101-200 local content
</xs:appinfo>
    </xs:annotation>
    <xs:union>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
```

```
                <xs:minInclusive value="1"/>
                <xs:maxInclusive value="8"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="nearside"/>
                <xs:enumeration value="farside"/>
                <xs:enumeration value="mid-block"/>
                <xs:enumeration value="at"/>
                <xs:enumeration value="between"/>
                <xs:enumeration value="farside-mid-block"/>
                <xs:enumeration value="nearside-mid-block"/>
                <xs:enumeration value="opposite"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="101"/>
                <xs:maxInclusive value="200"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:CPT-StopPlacement"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element PI-ServiceBulletinDes-->
<xs:simpleType name="PI-ServiceBulletinDes">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element OB-J1587-PassengerCounterPatronCount-->
<xs:simpleType name="OB-J1587-PassengerCounterPatronCount">
    <xs:restriction base="xs:unsignedByte"/>
</xs:simpleType>
<!-- Element OB-J1587-VelocityVectorPitch-->
<xs:simpleType name="OB-J1587-VelocityVectorPitch">
    <xs:restriction base="xs:short"/>
</xs:simpleType>
<!-- Element OB-J1587-VelocityVectorHeading-->
<xs:simpleType name="OB-J1587-VelocityVectorHeading">
    <xs:restriction base="xs:unsignedShort"/>
</xs:simpleType>
<!-- Element OB-J1587-VelocityVectorSpeed-->
<xs:simpleType name="OB-J1587-VelocityVectorSpeed">
    <xs:restriction base="xs:unsignedByte"/>
</xs:simpleType>
<!-- Element CPT-FileIdentifier-->
```

```
    <xs:simpleType name="CPT-FileIdentifier">
        <xs:annotation>
            <xs:appinfo>
component-application-software (1)
vehicle-assignments-file (2)
operator-assignments-file (3)
route-schedule-file (4)
patterns-file (5)
sign-and-annunciation-file (6)
timepoints-file (7)
stoppoints-file (8)
canned-text-messages-file (9) -- for mdt canned messages
component-proprietary-configuration (10)
fare-definition-file (11)
tsp-business-rules-file (12)
map-image-file (13) -- background map for mdt
alarm-limits-file (14)
calendar-file (15) -- day types
master-schedule-file (16)
block-schedule-file (17)
run-schedule-file (18)
event-change-file (19)
passenger-counter-file (101)
video-file (102) -- includes field video
audio-file (103) -- includes field audio
vehicle-movement-log-file (104)
fare-collection-log-file (105)
vehicle-parameters-log-file (106)
tsp-log-file (107)
traveler-request-log (108)
 -- 110-150 reserved
 -- 152-200 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="108"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="component-application-software"/>
                    <xs:enumeration value="vehicle-assignments-file"/>
                    <xs:enumeration value="operator-assignments-file"/>
                    <xs:enumeration value="route-schedule-file"/>
                    <xs:enumeration value="patterns-file"/>
                    <xs:enumeration value="sign-and-annunciation-file"/>
                    <xs:enumeration value="timepoints-file"/>
                    <xs:enumeration value="stoppoints-file"/>
```

```
                <xs:enumeration value="canned-text-messages-file"/>
                <xs:enumeration value="component-proprietary-configuration"/>
                <xs:enumeration value="fare-definition-file"/>
                <xs:enumeration value="tsp-business-rules-file"/>
                <xs:enumeration value="map-image-file"/>
                <xs:enumeration value="alarm-limits-file"/>
                <xs:enumeration value="calendar-file"/>
                <xs:enumeration value="master-schedule-file"/>
                <xs:enumeration value="block-schedule-file"/>
                <xs:enumeration value="run-schedule-file"/>
                <xs:enumeration value="event-change-file"/>
                <xs:enumeration value="passenger-counter-file"/>
                <xs:enumeration value="video-file"/>
                <xs:enumeration value="audio-file"/>
                <xs:enumeration value="vehicle-movement-log-file"/>
                <xs:enumeration value="fare-collection-log-file"/>
                <xs:enumeration value="vehicle-parameters-log-file"/>
                <xs:enumeration value="tsp-log-file"/>
                <xs:enumeration value="traveler-request-log"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="152"/>
                <xs:maxInclusive value="200"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:CPT-FileIdentifier"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element CC-ManufacturerData-->
<xs:simpleType name="CC-ManufacturerData">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-TransitFacilityName-->
<xs:simpleType name="CPT-TransitFacilityName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="20"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-TransitFacilityID-->
<xs:simpleType name="CPT-TransitFacilityID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
```

```
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-FacilityDesc-->
    <xs:simpleType name="CPT-FacilityDesc">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-TransferClusterName-->
    <xs:simpleType name="CPT-TransferClusterName">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="20"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-StoppointPortal-->
    <xs:simpleType name="CPT-StoppointPortal">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-StoppointName-->
    <xs:simpleType name="CPT-StoppointName">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="20"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-StoppointID-->
    <xs:simpleType name="CPT-StoppointID">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-StoppointDescription-->
    <xs:simpleType name="CPT-StoppointDescription">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-StoppointAttribute-->
    <xs:simpleType name="CPT-StoppointAttribute">
        <xs:annotation>
            <xs:appinfo>
busShelter (1)
bikeRack (2)
concession (3)
```

```
escalator (4)
elevator (5)
informationKiosk (6)
safetyZone (7)
lighting (8)
restroom (9) -- public
telephone (10)
fareSeller (11) -- fare media sales office/booth
seating (12)
survellience (13) -- camera
tdd (14) -- telephone for the hearing impaired
faregate (15) -- turnstile
informationMonitor (16)
ramp (17) -- wheelchair access
foodService (18)
wheelchairLift (19)
 -- 20-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="19"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="busShelter"/>
                    <xs:enumeration value="bikeRack"/>
                    <xs:enumeration value="concession"/>
                    <xs:enumeration value="escalator"/>
                    <xs:enumeration value="elevator"/>
                    <xs:enumeration value="informationKiosk"/>
                    <xs:enumeration value="safetyZone"/>
                    <xs:enumeration value="lighting"/>
                    <xs:enumeration value="restroom"/>
                    <xs:enumeration value="telephone"/>
                    <xs:enumeration value="fareSeller"/>
                    <xs:enumeration value="seating"/>
                    <xs:enumeration value="survellience"/>
                    <xs:enumeration value="tdd"/>
                    <xs:enumeration value="faregate"/>
                    <xs:enumeration value="informationMonitor"/>
                    <xs:enumeration value="ramp"/>
                    <xs:enumeration value="foodService"/>
                    <xs:enumeration value="wheelchairLift"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
```

```
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:CPT-StoppointAttribute"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CPT-ShelterType-->
    <xs:simpleType name="CPT-ShelterType">
        <xs:annotation>
            <xs:appinfo>
noShelter (1)
covered (2)
open (3)
enclosed (4)
 -- 5-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="4"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="noShelter"/>
                    <xs:enumeration value="covered"/>
                    <xs:enumeration value="open"/>
                    <xs:enumeration value="enclosed"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:CPT-ShelterType"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CPT-ShelterName-->
    <xs:simpleType name="CPT-ShelterName">
        <xs:restriction base="xs:string">
```

```
            <xs:minLength value="1"/>
            <xs:maxLength value="20"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-ShelterID-->
    <xs:simpleType name="CPT-ShelterID">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-Sex-->
    <xs:simpleType name="CPT-Sex">
        <xs:annotation>
            <xs:appinfo>
male (1)
female (2)
 -- 3-30 reserved
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="2"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="male"/>
                    <xs:enumeration value="female"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CPT-SeverityLevel-->
    <xs:simpleType name="CPT-SeverityLevel">
        <xs:restriction base="xs:unsignedByte"/>
    </xs:simpleType>
    <!-- Element CC-PollingGroup-->
    <xs:simpleType name="CC-PollingGroup">
        <xs:restriction base="xs:unsignedByte"/>
    </xs:simpleType>
    <!-- Element PI-PIDTextAttribute-->
    <xs:simpleType name="PI-PIDTextAttribute">
        <xs:annotation>
            <xs:appinfo>
flashingFast (1)
flashingSlow (2)
scrollLeftToRight (3)
scrollRightToLeft (4)
```

```
scrollTopToBottom (5)
scrollBottomToTop (6)
oneLineDisplay (11)
twoLineDisplay (12)
threeLineDisplay (13)
fourLineDisplay (14)
fiveLineDisplay (15)
sixLineDisplay (16)
sevenLineDisplay (17)
eightLineDisplay (18)
nineLineDisplay (19)
 -- 20-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="19"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="flashingFast"/>
                    <xs:enumeration value="flashingSlow"/>
                    <xs:enumeration value="scrollLeftToRight"/>
                    <xs:enumeration value="scrollRightToLeft"/>
                    <xs:enumeration value="scrollTopToBottom"/>
                    <xs:enumeration value="scrollBottomToTop"/>
                    <xs:enumeration value="oneLineDisplay"/>
                    <xs:enumeration value="twoLineDisplay"/>
                    <xs:enumeration value="threeLineDisplay"/>
                    <xs:enumeration value="fourLineDisplay"/>
                    <xs:enumeration value="fiveLineDisplay"/>
                    <xs:enumeration value="sixLineDisplay"/>
                    <xs:enumeration value="sevenLineDisplay"/>
                    <xs:enumeration value="eightLineDisplay"/>
                    <xs:enumeration value="nineLineDisplay"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:PI-PIDTextAttribute"/>
            </xs:simpleType>
        </xs:union>
```

```
    </xs:simpleType>
    <!-- Element PI-PIDTextColor-->
    <xs:simpleType name="PI-PIDTextColor">
        <xs:annotation>
            <xs:appinfo>
red (1) -- red letters on dark background
yellow (2) -- yellow letters on dark background
green (3) -- green letters on dark background
blue (4) -- blue  letters on dark background
white (5) -- white letters on dark background
blackRed (11) -- dark letters on red background
blackYellow (12) -- dark letters on yellow background
blackGreen (13) -- dark letters on green background
blackBlue (14) -- dark letters on blue background
blackWhite (15) -- dark letters on white background
 -- 16-127 reserved
 -- 128-200 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="15"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="red"/>
                    <xs:enumeration value="yellow"/>
                    <xs:enumeration value="green"/>
                    <xs:enumeration value="blue"/>
                    <xs:enumeration value="white"/>
                    <xs:enumeration value="blackRed"/>
                    <xs:enumeration value="blackYellow"/>
                    <xs:enumeration value="blackGreen"/>
                    <xs:enumeration value="blackBlue"/>
                    <xs:enumeration value="blackWhite"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="200"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:PI-PIDTextColor"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
```

```
<!-- Element CPT-CommandID-->
<xs:simpleType name="CPT-CommandID">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element PI-BinaryAudioData-->
<xs:complexType name="PI-BinaryAudioData">
    <xs:simpleContent>
        <xs:extension base="PI-BinaryAudioData-string">
            <xs:attribute name="EncodingType" use="required">
                <xs:simpleType>
                    <xs:restriction base="xs:NMTOKEN">
                        <xs:enumeration value="base64Binary"/>
                    </xs:restriction>
                </xs:simpleType>
            </xs:attribute>
        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
<xs:simpleType name="PI-BinaryAudioData-string">
    <xs:restriction base="xs:base64Binary">
        <xs:minLength value="2"/>
        <xs:maxLength value="2680000"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-GenericCounter-->
<xs:simpleType name="CPT-GenericCounter">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element OB-J1587-SoftwareIdentification-->
<xs:simpleType name="OB-J1587-SoftwareIdentification">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element OB-J1587-DGPSZCountStationHealth-->
<xs:simpleType name="OB-J1587-DGPSZCountStationHealth">
    <xs:restriction base="xs:unsignedShort"/>
</xs:simpleType>
<!-- Element OB-J1587-DGPSPseudorangeCorrection-->
<xs:simpleType name="OB-J1587-DGPSPseudorangeCorrection">
    <xs:restriction base="xs:short"/>
</xs:simpleType>
<!-- Element CPT-SerialNumber-->
<xs:simpleType name="CPT-SerialNumber">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-RadioZoneID-->
```

```
    <xs:simpleType name="CPT-RadioZoneID">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-PTVWheelChairCapacity-->
    <xs:simpleType name="CPT-PTVWheelChairCapacity">
        <xs:restriction base="xs:unsignedByte"/>
    </xs:simpleType>
    <!-- Element CPT-PTVStandingCapacity-->
    <xs:simpleType name="CPT-PTVStandingCapacity">
        <xs:restriction base="xs:unsignedShort"/>
    </xs:simpleType>
    <!-- Element CPT-PTVSeatingCapacity-->
    <xs:simpleType name="CPT-PTVSeatingCapacity">
        <xs:restriction base="xs:unsignedByte"/>
    </xs:simpleType>
    <!-- Element CPT-PTVehicleType-->
    <xs:simpleType name="CPT-PTVehicleType">
        <xs:annotation>
            <xs:appinfo>
twentyfiveRevenue (1) -- 25' Revenue
thirtyRevenue (2) -- 30' Revenue
fortyRevenue (3) -- 40' Revenue
articulated (4) -- Articulated
cng (5) -- CNG
lng (6) -- LNG
supervisor (7) -- Supervisor
police (8) -- Police
towTruck (9) -- Tow truck
shelterService (10) -- Shelter service truck
van (11) -- Van
passengerVehicle (12) -- Passenger vehicle
lightRail (13) -- Light rail car
commuterRail (14) -- Commuter rail car
heavyRail (15) -- Heavy rail car
aircraft (16)
ferry (17)
transitPolice (18)
otherPolice (19)
aEndCab (20) -- rail car with A-end cab
bEndCab (21) -- rail car with B-end cab
cCar (22) -- rail car with no cab
 -- 23-127 reserved
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
```

```
                <xs:maxInclusive value="22"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="twentyfiveRevenue"/>
                <xs:enumeration value="thirtyRevenue"/>
                <xs:enumeration value="fortyRevenue"/>
                <xs:enumeration value="articulated"/>
                <xs:enumeration value="cng"/>
                <xs:enumeration value="lng"/>
                <xs:enumeration value="supervisor"/>
                <xs:enumeration value="police"/>
                <xs:enumeration value="towTruck"/>
                <xs:enumeration value="shelterService"/>
                <xs:enumeration value="van"/>
                <xs:enumeration value="passengerVehicle"/>
                <xs:enumeration value="lightRail"/>
                <xs:enumeration value="commuterRail"/>
                <xs:enumeration value="heavyRail"/>
                <xs:enumeration value="aircraft"/>
                <xs:enumeration value="ferry"/>
                <xs:enumeration value="transitPolice"/>
                <xs:enumeration value="otherPolice"/>
                <xs:enumeration value="aEndCab"/>
                <xs:enumeration value="bEndCab"/>
                <xs:enumeration value="cCar"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element CPT-VehicleID-->
<xs:simpleType name="CPT-VehicleID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-PTVehicleBaseName-->
<xs:simpleType name="CPT-PTVehicleBaseName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CC-ServiceEventType-->
<xs:simpleType name="CC-ServiceEventType">
    <xs:annotation>
        <xs:appinfo>
customer-assaulted (1) -- not on ptv
employee-assaulted (2)
```

operator-assaulted (3)
fare-dispute (4)
intoxicated-customer (5)
sleeper (6)
other-disturbance (7)
gang-activity-at-stop (8)
gang-activity-on-ptv (9)
firearm-displayed-at-stop (10)
firearm-displayed-on-ptv (11)
shot-fired-at-stop (12)
shot-fired-on-ptv (13)
shot-fired-between-stops (14)
suspicious-pkg-at-stop (15)
suspicious-pkg-on-ptv (16)
drug-use-at-stop (17)
drug-use-on-ptv (18)
other-security (19)
false-alarm (20)
panhandling-at-stop (21)
panhandling-on-ptv (22)
passenger-assaulted (23)
future-security24 (24)
future-security25 (25) -- --- Illness -----
operator-illness (26)
passenger-illness (27)
future-illness28 (28)
other-illness (29) -- --- Schedule/Routing -----
overload-at-stop (30)
off-route (31)
off-schedule-early (32)
off-schedule-late (33)
overload (34)
overload-passing (35)
overload-wheelchair-passing (36) -- --- Service Related -----
power-outage (37)
service-response-required (38)
special-event (39)
street-blocked (40)
traffic (41)
auto-race (42)
baseball-game (43)
football-game (44)
hockey-game (45)
basketball-game (46)
unsanitary (47)
overhead-damage (48)
other-service-event (49) -- ---Mechanical And Accessibility -----
lift-malfunction-disabled (50)
lift-malfunction-not-disabled (51)
lift-malfunction-safety (53)
zone-ramp-problem (54)

mechanical-not-disabled (55)
mechanical-disabled (56)
radio-malfunction-road (57)
other-mechanical-assist (58)
other-mechanical-no-assist (59) -- --- Base Related -----
base-error (60)
maintenance-problem-base (61)
no-coach (62)
no-operator (63)
operator-delay (64)
tripper-storage (65)
radio-malfunction-base (66)
future-base67 (67)
future-base68 (68)
other-base-problem (69) -- --- Weather Related -----
chains-broken (70)
lost-in-snow (71)
snow-wrapped-in-duals (72)
snow-sand-to-clear (73)
stuck-tow-to-clear (74)
blocked (75)
fog (76)
heavy-rain (77)
ice (78)
other-weather (79)
flooding (80) -- --- Other -----
fuel-spill (81)
hazmat-spill (82)
utility-problem (83)
fire (84)
road-problem (85)
pothole (86)
bridge-problem (87)
safety-other (88)
monorail-problem (89)
streetcar-problem (90)
farebox-problem (91)
misc-alarm (92)
facility-damage (93)
future-other94 (94)
future-other95 (95)
curb-damage (96)
other-misc-event (97) -- ---- Transit Facilities------
facility-incident (98)
shelter-fire (99)
shelter-fire-damage (100)
Shelter-damage (101)
shelter-graffiti (102)
shelter-power-out (103)
Sign-missing (104)
sign-damage (105)

```
sign-power-out (106)
bench-damage (107)
bench-graffiti (108)
t-facility-future (110) -- PTV --------------------
ptv-fire (111)
ptv-other (112)
ptv-future113 (113)
ptv-future114 (114)
ptv-future115 (115)
ptv-future116 (116)
ptv-future117 (117)
ptv-future118 (118)
ptv-future119 (119) -- --- All Accident -----
accident-diesel-trolley (120)
accident-nonrevenue (121)
accident-paratransit (122)
accident-other (123)
accident-future-type (124)
accident-lift-related (125)
 -- 126-150 reserved
 -- 151-250 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
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                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="125"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="customer-assaulted"/>
                    <xs:enumeration value="employee-assaulted"/>
                    <xs:enumeration value="operator-assaulted"/>
                    <xs:enumeration value="fare-dispute"/>
                    <xs:enumeration value="intoxicated-customer"/>
                    <xs:enumeration value="sleeper"/>
                    <xs:enumeration value="other-disturbance"/>
                    <xs:enumeration value="gang-activity-at-stop"/>
                    <xs:enumeration value="gang-activity-on-ptv"/>
                    <xs:enumeration value="firearm-displayed-at-stop"/>
                    <xs:enumeration value="firearm-displayed-on-ptv"/>
                    <xs:enumeration value="shot-fired-at-stop"/>
                    <xs:enumeration value="shot-fired-on-ptv"/>
                    <xs:enumeration value="shot-fired-between-stops"/>
                    <xs:enumeration value="suspicious-pkg-at-stop"/>
                    <xs:enumeration value="suspicious-pkg-on-ptv"/>
                    <xs:enumeration value="drug-use-at-stop"/>
                    <xs:enumeration value="drug-use-on-ptv"/>
                    <xs:enumeration value="other-security"/>
```

```
<xs:enumeration value="false-alarm"/>
<xs:enumeration value="panhandling-at-stop"/>
<xs:enumeration value="panhandling-on-ptv"/>
<xs:enumeration value="passenger-assaulted"/>
<xs:enumeration value="future-security24"/>
<xs:enumeration value="future-security25"/>
<xs:enumeration value="operator-illness"/>
<xs:enumeration value="passenger-illness"/>
<xs:enumeration value="future-illness28"/>
<xs:enumeration value="other-illness"/>
<xs:enumeration value="overload-at-stop"/>
<xs:enumeration value="off-route"/>
<xs:enumeration value="off-schedule-early"/>
<xs:enumeration value="off-schedule-late"/>
<xs:enumeration value="overload"/>
<xs:enumeration value="overload-passing"/>
<xs:enumeration value="overload-wheelchair-passing"/>
<xs:enumeration value="power-outage"/>
<xs:enumeration value="service-response-required"/>
<xs:enumeration value="special-event"/>
<xs:enumeration value="street-blocked"/>
<xs:enumeration value="traffic"/>
<xs:enumeration value="auto-race"/>
<xs:enumeration value="baseball-game"/>
<xs:enumeration value="football-game"/>
<xs:enumeration value="hockey-game"/>
<xs:enumeration value="basketball-game"/>
<xs:enumeration value="unsanitary"/>
<xs:enumeration value="overhead-damage"/>
<xs:enumeration value="other-service-event"/>
<xs:enumeration value="lift-malfunction-disabled"/>
<xs:enumeration value="lift-malfunction-not-disabled"/>
<xs:enumeration value="lift-malfunction-safety"/>
<xs:enumeration value="zone-ramp-problem"/>
<xs:enumeration value="mechanical-not-disabled"/>
<xs:enumeration value="mechanical-disabled"/>
<xs:enumeration value="radio-malfunction-road"/>
<xs:enumeration value="other-mechanical-assist"/>
<xs:enumeration value="other-mechanical-no-assist"/>
<xs:enumeration value="base-error"/>
<xs:enumeration value="maintenance-problem-base"/>
<xs:enumeration value="no-coach"/>
<xs:enumeration value="no-operator"/>
<xs:enumeration value="operator-delay"/>
<xs:enumeration value="tripper-storage"/>
<xs:enumeration value="radio-malfunction-base"/>
<xs:enumeration value="future-base67"/>
<xs:enumeration value="future-base68"/>
<xs:enumeration value="other-base-problem"/>
<xs:enumeration value="chains-broken"/>
<xs:enumeration value="lost-in-snow"/>
```

```
<xs:enumeration value="snow-wrapped-in-duals"/>
<xs:enumeration value="snow-sand-to-clear"/>
<xs:enumeration value="stuck-tow-to-clear"/>
<xs:enumeration value="blocked"/>
<xs:enumeration value="fog"/>
<xs:enumeration value="heavy-rain"/>
<xs:enumeration value="ice"/>
<xs:enumeration value="other-weather"/>
<xs:enumeration value="flooding"/>
<xs:enumeration value="fuel-spill"/>
<xs:enumeration value="hazmat-spill"/>
<xs:enumeration value="utility-problem"/>
<xs:enumeration value="fire"/>
<xs:enumeration value="road-problem"/>
<xs:enumeration value="pothole"/>
<xs:enumeration value="bridge-problem"/>
<xs:enumeration value="safety-other"/>
<xs:enumeration value="monorail-problem"/>
<xs:enumeration value="streetcar-problem"/>
<xs:enumeration value="farebox-problem"/>
<xs:enumeration value="misc-alarm"/>
<xs:enumeration value="facility-damage"/>
<xs:enumeration value="future-other94"/>
<xs:enumeration value="future-other95"/>
<xs:enumeration value="curb-damage"/>
<xs:enumeration value="other-misc-event"/>
<xs:enumeration value="facility-incident"/>
<xs:enumeration value="shelter-fire"/>
<xs:enumeration value="shelter-fire-damage"/>
<xs:enumeration value="Shelter-damage"/>
<xs:enumeration value="shelter-graffiti"/>
<xs:enumeration value="shelter-power-out"/>
<xs:enumeration value="Sign-missing"/>
<xs:enumeration value="sign-damage"/>
<xs:enumeration value="sign-power-out"/>
<xs:enumeration value="bench-damage"/>
<xs:enumeration value="bench-graffiti"/>
<xs:enumeration value="t-facility-future"/>
<xs:enumeration value="ptv-fire"/>
<xs:enumeration value="ptv-other"/>
<xs:enumeration value="ptv-future113"/>
<xs:enumeration value="ptv-future114"/>
<xs:enumeration value="ptv-future115"/>
<xs:enumeration value="ptv-future116"/>
<xs:enumeration value="ptv-future117"/>
<xs:enumeration value="ptv-future118"/>
<xs:enumeration value="ptv-future119"/>
<xs:enumeration value="accident-diesel-trolley"/>
<xs:enumeration value="accident-nonrevenue"/>
<xs:enumeration value="accident-paratransit"/>
<xs:enumeration value="accident-other"/>
```

```
                <xs:enumeration value="accident-future-type"/>
                <xs:enumeration value="accident-lift-related"/>
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        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="151"/>
                <xs:maxInclusive value="250"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:CC-ServiceEventType"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element CPT-PTVehicleBaseCapacity-->
<xs:simpleType name="CPT-PTVehicleBaseCapacity">
    <xs:restriction base="xs:unsignedShort"/>
</xs:simpleType>
<!-- Element CPT-PTVehicleAttribute-->
<xs:simpleType name="CPT-PTVehicleAttribute">
    <xs:annotation>
        <xs:appinfo>
bikeRack (1) -- Bike rack
camera (2) -- Surveillance camera
tieDown (3) -- Wheel chair tie-down
lift (4) -- Lift (wheel chair)
skiRack (5) -- Ski rack
surfboardRack (6) -- Surfboard rack
concession (7) -- Food service/ concession
restroom (8) -- Restroom
farebox (9) -- Farebox
pos (10) -- Point of sale
change (11) -- Change (for POS)
rail-vehicle (12) -- --vehicle is a rail vehicle
 -- 13-127 reserved
 -- 128-255 local content
</xs:appinfo>
    </xs:annotation>
    <xs:union>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="1"/>
                <xs:maxInclusive value="12"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="bikeRack"/>
                <xs:enumeration value="camera"/>
                <xs:enumeration value="tieDown"/>
```

```
                <xs:enumeration value="lift"/>
                <xs:enumeration value="skiRack"/>
                <xs:enumeration value="surfboardRack"/>
                <xs:enumeration value="concession"/>
                <xs:enumeration value="restroom"/>
                <xs:enumeration value="farebox"/>
                <xs:enumeration value="pos"/>
                <xs:enumeration value="change"/>
                <xs:enumeration value="rail-vehicle"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:CPT-PTVehicleAttribute"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element CPT-PTVehicleTypeDesc-->
<xs:simpleType name="CPT-PTVehicleTypeDesc">
    <xs:restriction base="xs:string">
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        <xs:maxLength value="2"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-PriorityLevel-->
<xs:simpleType name="CPT-PriorityLevel">
    <xs:restriction base="xs:unsignedByte"/>
</xs:simpleType>
<!-- Element CPT-PlatformType-->
<xs:simpleType name="CPT-PlatformType">
    <xs:annotation>
        <xs:appinfo>
woodLow (1)
woodHigh (2)
concretePad (3)
concreteHigh (4)
highBlocks (5)
concreteRamp (6)
 -- 7-127 reserved
 -- 128-255 local content
</xs:appinfo>
    </xs:annotation>
    <xs:union>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="1"/>
```

```
                <xs:maxInclusive value="6"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="woodLow"/>
                <xs:enumeration value="woodHigh"/>
                <xs:enumeration value="concretePad"/>
                <xs:enumeration value="concreteHigh"/>
                <xs:enumeration value="highBlocks"/>
                <xs:enumeration value="concreteRamp"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:CPT-PlatformType"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element CPT-PadType-->
<xs:simpleType name="CPT-PadType">
    <xs:annotation>
        <xs:appinfo>
dirt (1)
concreteWithNoWalk (2) -- no connection to a sidewalk
concreteStructure (3) -- part of a structure
concreteSidewalk (4) -- part of a sidewalk
asphaltShoulder (5) -- shoulder of a road
asphaltSeparate (6) -- separate from a road or sidewalk
brick (7)
wood (8)
 -- 9-127 reserved
 -- 128-255 local content
</xs:appinfo>
    </xs:annotation>
    <xs:union>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="1"/>
                <xs:maxInclusive value="8"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="dirt"/>
                <xs:enumeration value="concreteWithNoWalk"/>
```

```
                <xs:enumeration value="concreteStructure"/>
                <xs:enumeration value="concreteSidewalk"/>
                <xs:enumeration value="asphaltShoulder"/>
                <xs:enumeration value="asphaltSeparate"/>
                <xs:enumeration value="brick"/>
                <xs:enumeration value="wood"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:CPT-PadType"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element FC-ValidationErrorType-->
<xs:simpleType name="FC-ValidationErrorType">
    <xs:annotation>
        <xs:appinfo>
invalid-activation-date (1)
invalid-fare-zone-definition (2)
invalid-basic-fare (3)
invalid-stop-fare (4)
invalid-zone-fare (5)
invalid-bad-fare (6)
invalid-good-medias (7)
invalid-stoppoint (8)
invalid-day-definition (9)
invalid-transfer (10)
invalid-access-permission (11)
 -- 13-101 reserved
</xs:appinfo>
    </xs:annotation>
    <xs:union>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="1"/>
                <xs:maxInclusive value="11"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="invalid-activation-date"/>
                <xs:enumeration value="invalid-fare-zone-definition"/>
                <xs:enumeration value="invalid-basic-fare"/>
                <xs:enumeration value="invalid-stop-fare"/>
                <xs:enumeration value="invalid-zone-fare"/>
```

```
                <xs:enumeration value="invalid-bad-fare"/>
                <xs:enumeration value="invalid-good-medias"/>
                <xs:enumeration value="invalid-stoppoint"/>
                <xs:enumeration value="invalid-day-definition"/>
                <xs:enumeration value="invalid-transfer"/>
                <xs:enumeration value="invalid-access-permission"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element CC-PollDataRequested-->
<xs:simpleType name="CC-PollDataRequested">
    <xs:restriction base="xs:unsignedShort"/>
</xs:simpleType>
<!-- Element CPT-OrgUnitName-->
<xs:simpleType name="CPT-OrgUnitName">
    <xs:restriction base="xs:string">
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        <xs:maxLength value="40"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-OrgUnitID-->
<xs:simpleType name="CPT-OrgUnitID">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element CPT-OrgUnitDesc-->
<xs:simpleType name="CPT-OrgUnitDesc">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
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</xs:simpleType>
<!-- Element CPT-OperatorID-->
<xs:simpleType name="CPT-OperatorID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-OperatorDesignator-->
<xs:simpleType name="CPT-OperatorDesignator">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-OperatorBaseName-->
<xs:simpleType name="CPT-OperatorBaseName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
```

```
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-OperatorBaseID-->
<xs:simpleType name="CPT-OperatorBaseID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-Model-->
<xs:simpleType name="CPT-Model">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-Mode-->
<xs:simpleType name="CPT-Mode">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-Manufacturer-->
<xs:simpleType name="CPT-Manufacturer">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="20"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-Frequency-->
<xs:simpleType name="CPT-Frequency">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element CPT-Footnote-->
<xs:simpleType name="CPT-Footnote">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
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    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-FareZoneID-->
<xs:simpleType name="CPT-FareZoneID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
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    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-EmployeeTelephone-->
<xs:simpleType name="CPT-EmployeeTelephone">
    <xs:restriction base="xs:string">
```

```
            <xs:minLength value="1"/>
            <xs:maxLength value="16"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CC-PollResponseStatus-->
    <xs:simpleType name="CC-PollResponseStatus">
        <xs:restriction base="xs:unsignedByte"/>
    </xs:simpleType>
    <!-- Element CC-MsgCounter-->
    <xs:simpleType name="CC-MsgCounter">
        <xs:restriction base="xs:unsignedByte"/>
    </xs:simpleType>
    <!-- Element CC-AgencyData-->
    <xs:complexType name="CC-AgencyData">
        <xs:simpleContent>
            <xs:extension base="CC-AgencyData-string">
                <xs:attribute name="EncodingType" use="required">
                    <xs:simpleType>
                        <xs:restriction base="xs:NMTOKEN">
                            <xs:enumeration value="base64Binary"/>
                        </xs:restriction>
                    </xs:simpleType>
                </xs:attribute>
            </xs:extension>
        </xs:simpleContent>
    </xs:complexType>
    <xs:simpleType name="CC-AgencyData-string">
        <xs:restriction base="xs:base64Binary">
            <xs:minLength value="2"/>
            <xs:maxLength value="21"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-EmplJobCatDesc-->
    <xs:simpleType name="CPT-EmplJobCatDesc">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-EmplJobCat-->
    <xs:simpleType name="CPT-EmplJobCat">
        <xs:annotation>
            <xs:appinfo>
fullTimeOperator (1)
partTimeOperator (2)
conductor (3)
engineer (4)
maintenance (5)
supervisor (6) -- also manager
revenueCollector (7)
dispatcher (8)
```

```
 -- 9-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
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                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
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                    <xs:enumeration value="partTimeOperator"/>
                    <xs:enumeration value="conductor"/>
                    <xs:enumeration value="engineer"/>
                    <xs:enumeration value="maintenance"/>
                    <xs:enumeration value="supervisor"/>
                    <xs:enumeration value="revenueCollector"/>
                    <xs:enumeration value="dispatcher"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:CPT-EmplJobCat"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CPT-EmployeeID-->
    <xs:simpleType name="CPT-EmployeeID">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="60"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-DayofWeek-->
    <xs:simpleType name="CPT-DayofWeek">
        <xs:annotation>
            <xs:appinfo>
Sunday (1)
Monday (2)
Tuesday (3)
Wednesday (4)
Thursday (5)
Friday (6)
```

```
Saturday (7)
 -- 8-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="7"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="Sunday"/>
                    <xs:enumeration value="Monday"/>
                    <xs:enumeration value="Tuesday"/>
                    <xs:enumeration value="Wednesday"/>
                    <xs:enumeration value="Thursday"/>
                    <xs:enumeration value="Friday"/>
                    <xs:enumeration value="Saturday"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:CPT-DayofWeek"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CPT-DateTime-->
    <xs:simpleType name="CPT-DateTime">
        <xs:annotation>
            <xs:appinfo>Can be specified as a integer number or as xs:dateTime</xs:appinfo>
        </xs:annotation>
        <xs:union memberTypes="xs:unsignedLong xs:dateTime"/>
    </xs:simpleType>
    <!-- Element CPT-ChannelName-->
    <xs:simpleType name="CPT-ChannelName">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-MailingConfirmNum-->
    <xs:simpleType name="PI-MailingConfirmNum">
        <xs:restriction base="xs:unsignedLong"/>
```

```
    </xs:simpleType>
    <!-- Element PI-ReasonNotSent-->
    <xs:simpleType name="PI-ReasonNotSent">
        <xs:annotation>
            <xs:appinfo>
invalidAddress (1)
invalidTraveler (2)
invalidTravelerName (3)
invalidMaterials (4)
outOfStock (5)
 -- 6-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="5"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="invalidAddress"/>
                    <xs:enumeration value="invalidTraveler"/>
                    <xs:enumeration value="invalidTravelerName"/>
                    <xs:enumeration value="invalidMaterials"/>
                    <xs:enumeration value="outOfStock"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:PI-ReasonNotSent"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element PI-ServiceBulletinID-->
    <xs:simpleType name="PI-ServiceBulletinID">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-LandmarkID-->
    <xs:simpleType name="PI-LandmarkID">
        <xs:restriction base="xs:unsignedLong"/>
```

```
    </xs:simpleType>
    <!-- Element PI-LandmarkType-->
    <xs:simpleType name="PI-LandmarkType">
        <xs:annotation>
            <xs:appinfo>
airport (1)
amusementPark (2)
bank (3)
beach (4)
bodyOfWater (5)
bridgeOverpass (6)
busStation (7)
campground (8)
capitalBuilding (9)
casino (10)
cemetery (11)
church (12)
collegeUniversity (13)
conventionCenter (14)
countySeat (15)
courthouse (16)
dam (17)
gasStation (18)
golfCourse (19)
governmentBuilding (20)
historicalSite (21)
hospital (22)
hotelMotel (23)
indigineousReserve (24)
intermodalStation (25)
landfill (26)
library (27)
lighthouse (28)
marina (29)
militaryFacility (30)
monument (31)
museum (32)
observatory (33)
officeBuilding (34)
operaHouse (35)
park (36)
parkAndRide (37)
parkingFacility (38)
port (39)
residence (40)
resort (41)
restaurant (42)
school (43)
shoppingCenter (44)
sportsArena (45)
swampWetland (46)
```

```
theater (47)
trainStation (48)
trolleyStation (49)
tunnel (50)
volcano (51)
waterfall (52)
zoo (53)
otherLandmark (54)
movieTheater (55)
concertHall (56)
 -- 57-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="56"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="airport"/>
                    <xs:enumeration value="amusementPark"/>
                    <xs:enumeration value="bank"/>
                    <xs:enumeration value="beach"/>
                    <xs:enumeration value="bodyOfWater"/>
                    <xs:enumeration value="bridgeOverpass"/>
                    <xs:enumeration value="busStation"/>
                    <xs:enumeration value="campground"/>
                    <xs:enumeration value="capitalBuilding"/>
                    <xs:enumeration value="casino"/>
                    <xs:enumeration value="cemetery"/>
                    <xs:enumeration value="church"/>
                    <xs:enumeration value="collegeUniversity"/>
                    <xs:enumeration value="conventionCenter"/>
                    <xs:enumeration value="countySeat"/>
                    <xs:enumeration value="courthouse"/>
                    <xs:enumeration value="dam"/>
                    <xs:enumeration value="gasStation"/>
                    <xs:enumeration value="golfCourse"/>
                    <xs:enumeration value="governmentBuilding"/>
                    <xs:enumeration value="historicalSite"/>
                    <xs:enumeration value="hospital"/>
                    <xs:enumeration value="hotelMotel"/>
                    <xs:enumeration value="indigineousReserve"/>
                    <xs:enumeration value="intermodalStation"/>
                    <xs:enumeration value="landfill"/>
                    <xs:enumeration value="library"/>
                    <xs:enumeration value="lighthouse"/>
```

```
            <xs:enumeration value="marina"/>
            <xs:enumeration value="militaryFacility"/>
            <xs:enumeration value="monument"/>
            <xs:enumeration value="museum"/>
            <xs:enumeration value="observatory"/>
            <xs:enumeration value="officeBuilding"/>
            <xs:enumeration value="operaHouse"/>
            <xs:enumeration value="park"/>
            <xs:enumeration value="parkAndRide"/>
            <xs:enumeration value="parkingFacility"/>
            <xs:enumeration value="port"/>
            <xs:enumeration value="residence"/>
            <xs:enumeration value="resort"/>
            <xs:enumeration value="restaurant"/>
            <xs:enumeration value="school"/>
            <xs:enumeration value="shoppingCenter"/>
            <xs:enumeration value="sportsArena"/>
            <xs:enumeration value="swampWetland"/>
            <xs:enumeration value="theater"/>
            <xs:enumeration value="trainStation"/>
            <xs:enumeration value="trolleyStation"/>
            <xs:enumeration value="tunnel"/>
            <xs:enumeration value="volcano"/>
            <xs:enumeration value="waterfall"/>
            <xs:enumeration value="zoo"/>
            <xs:enumeration value="otherLandmark"/>
            <xs:enumeration value="movieTheater"/>
            <xs:enumeration value="concertHall"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType>
        <xs:restriction base="xs:unsignedInt">
            <xs:minInclusive value="128"/>
            <xs:maxInclusive value="255"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType>
        <xs:restriction base="local:PI-LandmarkType"/>
    </xs:simpleType>
  </xs:union>
</xs:simpleType>
<!-- Element CPT-MillisecondDuration-->
<xs:simpleType name="CPT-MillisecondDuration">
  <xs:restriction base="xs:unsignedShort"/>
</xs:simpleType>
<!-- Element CPT-ChannelID-->
<xs:simpleType name="CPT-ChannelID">
  <xs:restriction base="xs:unsignedByte"/>
</xs:simpleType>
<!-- Element CPT-ChannelBand-->
<xs:simpleType name="CPT-ChannelBand">
```

```
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element CPT-ChannelAttribute-->
    <xs:simpleType name="CPT-ChannelAttribute">
        <xs:annotation>
            <xs:appinfo>
trunk (1)
conventional (2)
full (3)
half (4)
quarter (5)
digital (6)
analog (7)
voice (8)
data (9)
 -- 10-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="9"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="trunk"/>
                    <xs:enumeration value="conventional"/>
                    <xs:enumeration value="full"/>
                    <xs:enumeration value="half"/>
                    <xs:enumeration value="quarter"/>
                    <xs:enumeration value="digital"/>
                    <xs:enumeration value="analog"/>
                    <xs:enumeration value="voice"/>
                    <xs:enumeration value="data"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:CPT-ChannelAttribute"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CPT-AgencyID-->
```

```
    <xs:simpleType name="CPT-AgencyID">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element CC-ScheduleToleranceLate-->
    <xs:simpleType name="CC-ScheduleToleranceLate">
        <xs:restriction base="xs:unsignedShort"/>
    </xs:simpleType>
    <!-- Element CC-ScheduleToleranceEarly-->
    <xs:simpleType name="CC-ScheduleToleranceEarly">
        <xs:restriction base="xs:unsignedShort"/>
    </xs:simpleType>
    <!-- Element CC-RouteIDShort-->
    <xs:simpleType name="CC-RouteIDShort">
        <xs:restriction base="xs:unsignedShort"/>
    </xs:simpleType>
    <!-- Element CC-ReturnToleranceLate-->
    <xs:simpleType name="CC-ReturnToleranceLate">
        <xs:restriction base="xs:unsignedShort"/>
    </xs:simpleType>
    <!-- Element CC-ReturnToleranceEarly-->
    <xs:simpleType name="CC-ReturnToleranceEarly">
        <xs:restriction base="xs:unsignedShort"/>
    </xs:simpleType>
    <!-- Element CC-ResponseRequestType-->
    <xs:simpleType name="CC-ResponseRequestType">
        <xs:annotation>
            <xs:appinfo>
rtt (1) -- request to talk
prtt (2) -- priority request to talk
urgent (3)
data (4)
spare-1 (5)
silent-alarm (6)
remote-silent-alarm (7)
 -- 9-100 reserved
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="7"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="rtt"/>
                    <xs:enumeration value="prtt"/>
                    <xs:enumeration value="urgent"/>
                    <xs:enumeration value="data"/>
                    <xs:enumeration value="spare-1"/>
```

```
                <xs:enumeration value="silent-alarm"/>
                <xs:enumeration value="remote-silent-alarm"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element CC-RadioVoiceControl-->
<xs:simpleType name="CC-RadioVoiceControl">
    <xs:annotation>
        <xs:appinfo>
handset (1)
announcement (2)
covert-mic (3)
pa-interior (4)
pa-exterior (5)
pa-interior-exterior (6)
telephone-interconnect (7)
hailing-spkr (8)
 -- 9-127 reserved
 -- 128-255 local content
</xs:appinfo>
    </xs:annotation>
    <xs:union>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="1"/>
                <xs:maxInclusive value="8"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="handset"/>
                <xs:enumeration value="announcement"/>
                <xs:enumeration value="covert-mic"/>
                <xs:enumeration value="pa-interior"/>
                <xs:enumeration value="pa-exterior"/>
                <xs:enumeration value="pa-interior-exterior"/>
                <xs:enumeration value="telephone-interconnect"/>
                <xs:enumeration value="hailing-spkr"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:CC-RadioVoiceControl"/>
        </xs:simpleType>
    </xs:union>
```

```
    </xs:simpleType>
    <!-- Element CC-VehicleIDShort-->
    <xs:simpleType name="CC-VehicleIDShort">
        <xs:restriction base="xs:unsignedShort"/>
    </xs:simpleType>
    <!-- Element FC-FareDefinitionRecordID-->
    <xs:simpleType name="FC-FareDefinitionRecordID">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element FC-FareRecordID-->
    <xs:simpleType name="FC-FareRecordID">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CC-MsgResponse-->
    <xs:simpleType name="CC-MsgResponse">
        <xs:annotation>
            <xs:appinfo>
noResponse (0)
responseRequired (1)
 -- 2-100 reserved
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="0"/>
                    <xs:maxInclusive value="1"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="noResponse"/>
                    <xs:enumeration value="responseRequired"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CC-ExceptionFrequencyReport-->
    <xs:simpleType name="CC-ExceptionFrequencyReport">
        <xs:restriction base="xs:unsignedByte"/>
    </xs:simpleType>
    <!-- Element CC-DetourID-->
    <xs:simpleType name="CC-DetourID">
        <xs:restriction base="xs:unsignedByte"/>
    </xs:simpleType>
```

```
    <!-- Element CC-AnnouncementMsgID-->
    <xs:simpleType name="CC-AnnouncementMsgID">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SCH-TripTypeDescription-->
    <xs:simpleType name="SCH-TripTypeDescription">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SCH-TripType-->
    <xs:simpleType name="SCH-TripType">
        <xs:annotation>
            <xs:appinfo>
revenue (1) -- Revenue
pullIn (2) -- Pull In (from vehicle base)
pullOut (3) -- Pull Out (to vehicle base)
deadhead (4) -- Deadhead
extra (5) -- Extra
standby (6) -- Standby
garTransfer (7) -- Garage transfer
roadCall (8) -- Road call
roadCallReturn (9) -- Road call return
roadTest (10) -- Road test
invalidMovement (11) -- Invalid movement
 -- 14-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="11"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="revenue"/>
                    <xs:enumeration value="pullIn"/>
                    <xs:enumeration value="pullOut"/>
                    <xs:enumeration value="deadhead"/>
                    <xs:enumeration value="extra"/>
                    <xs:enumeration value="standby"/>
                    <xs:enumeration value="garTransfer"/>
                    <xs:enumeration value="roadCall"/>
                    <xs:enumeration value="roadCallReturn"/>
```

```
                <xs:enumeration value="roadTest"/>
                <xs:enumeration value="invalidMovement"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:SCH-TripType"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element SCH-TripTimePtAttribute-->
<xs:simpleType name="SCH-TripTimePtAttribute">
    <xs:annotation>
        <xs:appinfo>
layover (1) -- Layover
relief (2) -- Relief
control (3) -- Control
transfer (4) -- Transfer
recovery (5) -- Recovery
pullIn (6) -- Pull in
pullOut (7) -- Pull out
maxLoadPt (8) -- Maximum load point
arrive (9) -- Arrive
depart (10) -- Depart
schedAdhOn (11) -- Schedule Adherence On
schedAdhOff (12) -- Schedule Adherence Off
rtAdhOn (13) -- Route Adherence On
rtAdhOff (14) -- Route Adherence Off
 -- 15-127 reserved
 -- 128-255 local content
</xs:appinfo>
    </xs:annotation>
    <xs:union>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="1"/>
                <xs:maxInclusive value="14"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="layover"/>
                <xs:enumeration value="relief"/>
                <xs:enumeration value="control"/>
                <xs:enumeration value="transfer"/>
                <xs:enumeration value="recovery"/>
```

```
                <xs:enumeration value="pullIn"/>
                <xs:enumeration value="pullOut"/>
                <xs:enumeration value="maxLoadPt"/>
                <xs:enumeration value="arrive"/>
                <xs:enumeration value="depart"/>
                <xs:enumeration value="schedAdhOn"/>
                <xs:enumeration value="schedAdhOff"/>
                <xs:enumeration value="rtAdhOn"/>
                <xs:enumeration value="rtAdhOff"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:SCH-TripTimePtAttribute"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element SCH-TripID-->
<xs:simpleType name="SCH-TripID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SCH-TripDesignator-->
<xs:simpleType name="SCH-TripDesignator">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SCH-TimetableVersionName-->
<xs:simpleType name="SCH-TimetableVersionName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SCH-TimetableVersionID-->
<xs:simpleType name="SCH-TimetableVersionID">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element SCH-TimePtNameShort-->
<xs:simpleType name="SCH-TimePtNameShort">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
```

```
        <xs:maxLength value="4"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SCH-TimepointName-->
<xs:simpleType name="SCH-TimepointName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="40"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SCH-TimepointIntervalID-->
<xs:simpleType name="SCH-TimepointIntervalID">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element SCH-TimepointIntervalDes-->
<xs:simpleType name="SCH-TimepointIntervalDes">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SCH-TimepointID-->
<xs:simpleType name="SCH-TimepointID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SCH-TimepointDesignator-->
<xs:simpleType name="SCH-TimepointDesignator">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CC-J1939DiagnosticMessage1-->
<xs:complexType name="CC-J1939DiagnosticMessage1">
    <xs:simpleContent>
        <xs:extension base="CC-J1939DiagnosticMessage1-string">
            <xs:attribute name="EncodingType" use="required">
                <xs:simpleType>
                    <xs:restriction base="xs:NMTOKEN">
                        <xs:enumeration value="base64Binary"/>
                    </xs:restriction>
                </xs:simpleType>
            </xs:attribute>
        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
<xs:simpleType name="CC-J1939DiagnosticMessage1-string">
    <xs:restriction base="xs:base64Binary">
```

```
            <xs:minLength value="2"/>
            <xs:maxLength value="11"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SCH-ExceptionName-->
    <xs:simpleType name="SCH-ExceptionName">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SCH-ExceptionID-->
    <xs:simpleType name="SCH-ExceptionID">
        <xs:restriction base="xs:long"/>
    </xs:simpleType>
    <!-- Element SCH-ServiceType-->
    <xs:simpleType name="SCH-ServiceType">
        <xs:annotation>
            <xs:appinfo>
regular (1) -- Regular,
express (2) -- Express,
circular (3) -- Circular,
radial (4) -- Radial,
feeder (5) -- Feeder,
jitney (6) -- Jitney,
limited (7) -- Limited,
nonRevenue (8) -- Non-revenue,
unknown (9) -- Unknown,
charter (10) -- Charter Service,
school (11) -- School Service,
special (12) -- Special Service,
operatorTraining (13) -- Operator Training,
maintenance (14) -- Maintenance Service,
noService (15) -- No Service,
standBy (16) -- Stand-by,
extra (17) -- Extra,
 -- 18-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="17"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="regular"/>
                    <xs:enumeration value="express"/>
```

```
                <xs:enumeration value="circular"/>
                <xs:enumeration value="radial"/>
                <xs:enumeration value="feeder"/>
                <xs:enumeration value="jitney"/>
                <xs:enumeration value="limited"/>
                <xs:enumeration value="nonRevenue"/>
                <xs:enumeration value="unknown"/>
                <xs:enumeration value="charter"/>
                <xs:enumeration value="school"/>
                <xs:enumeration value="special"/>
                <xs:enumeration value="operatorTraining"/>
                <xs:enumeration value="maintenance"/>
                <xs:enumeration value="noService"/>
                <xs:enumeration value="standBy"/>
                <xs:enumeration value="extra"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:SCH-ServiceType"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element SCH-RunType-->
<xs:simpleType name="SCH-RunType">
    <xs:annotation>
        <xs:appinfo>
amStraigtht (1) -- AM Straight,
midStraight (2) -- Midday Straight,
pmStraight (3) -- PM Straight,
straight (4) -- Straight,
cleanup (5) -- Cleanup,
owl (6) -- Owl,
regular (7) -- Regular,
relief (8) -- Relief,
split (9) -- Split,
threePiece (10) -- Three Piece (including swing),
tripper (11) -- Tripper,
twoPiece (12) -- Two Piece (including swing),
amSplit (13) -- AM Split
midSplit (14) -- midday Split
pmSplit (15) -- PM Split
amSplit10 (16) -- AM Split 10 hr
midSplit10 (17) -- midday Split 10 hr
pmSplit10 (18) -- PM Split 10 hr
amStraight10 (19) -- AM Straight 10 hr
```

```
midStraight10 (20) -- midday Straight 10 hr
pmStraight10 (21) -- PM Straight 10 hr
amPartTime (22) -- AM Part Time
midPartTime (23) -- midday Part Time
pmPartTime (24) -- PM Part Time
unknown (25)
 -- 26-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="25"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="amStraigtht"/>
                    <xs:enumeration value="midStraight"/>
                    <xs:enumeration value="pmStraight"/>
                    <xs:enumeration value="straight"/>
                    <xs:enumeration value="cleanup"/>
                    <xs:enumeration value="owl"/>
                    <xs:enumeration value="regular"/>
                    <xs:enumeration value="relief"/>
                    <xs:enumeration value="split"/>
                    <xs:enumeration value="threePiece"/>
                    <xs:enumeration value="tripper"/>
                    <xs:enumeration value="twoPiece"/>
                    <xs:enumeration value="amSplit"/>
                    <xs:enumeration value="midSplit"/>
                    <xs:enumeration value="pmSplit"/>
                    <xs:enumeration value="amSplit10"/>
                    <xs:enumeration value="midSplit10"/>
                    <xs:enumeration value="pmSplit10"/>
                    <xs:enumeration value="amStraight10"/>
                    <xs:enumeration value="midStraight10"/>
                    <xs:enumeration value="pmStraight10"/>
                    <xs:enumeration value="amPartTime"/>
                    <xs:enumeration value="midPartTime"/>
                    <xs:enumeration value="pmPartTime"/>
                    <xs:enumeration value="unknown"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
```

```
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:SCH-RunType"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element SCH-RunningTime-->
<xs:simpleType name="SCH-RunningTime">
    <xs:annotation>
        <xs:appinfo>Can be specified as a integer number or as xs:duration</xs:appinfo>
    </xs:annotation>
    <xs:union memberTypes="xs:unsignedInt xs:duration"/>
</xs:simpleType>
<!-- Element SCH-RunningTimePeriodName-->
<xs:simpleType name="SCH-RunningTimePeriodName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SCH-RunID-->
<xs:simpleType name="SCH-RunID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SCH-RunDesignator-->
<xs:simpleType name="SCH-RunDesignator">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SCH-RouteName-->
<xs:simpleType name="SCH-RouteName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SCH-RouteID-->
<xs:simpleType name="SCH-RouteID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SCH-RouteDirectionName-->
<xs:simpleType name="SCH-RouteDirectionName">
    <xs:restriction base="xs:string">
```

```
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CC-J1939LampStatus-->
    <xs:simpleType name="CC-J1939LampStatus">
        <xs:annotation>
            <xs:appinfo>
lampOff (0) -- lamp off
lampOn (1) -- lamp on
reserved (2) -- reserved
 -- 5-100 reserved
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="0"/>
                    <xs:maxInclusive value="2"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="lampOff"/>
                    <xs:enumeration value="lampOn"/>
                    <xs:enumeration value="reserved"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element SCH-RouteDesignator-->
    <xs:simpleType name="SCH-RouteDesignator">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SCH-RosterID-->
    <xs:simpleType name="SCH-RosterID">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element SCH-RosterDesignator-->
    <xs:simpleType name="SCH-RosterDesignator">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SCH-PatternName-->
    <xs:simpleType name="SCH-PatternName">
        <xs:restriction base="xs:string">
```

```
            <xs:minLength value="1"/>
            <xs:maxLength value="20"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SCH-PatternID-->
    <xs:simpleType name="SCH-PatternID">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SCH-PatternDesignator-->
    <xs:simpleType name="SCH-PatternDesignator">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SCH-OperatingTimeType-->
    <xs:simpleType name="SCH-OperatingTimeType">
        <xs:annotation>
            <xs:appinfo>
deadhead (1) -- Deadhead Time
dwell (2) -- Dwell Time
layover (3) -- Layover Time
makeUp (4) -- Make Up Time
overtime (5) -- Overtime
pullIn (6) -- PullIn Time
pullOut (7) -- PullOut Time
spread (8) -- Spread Time
travel (9) -- Travel Time
turnInAllowance (10) -- TurnInAllowance
report (11) -- Report Time
platform (12) -- Platform Time
break (13) -- Break Time
mealBreak (14) -- Meal Break Time
inService (15) -- Time spent operating in revenue service
 -- 16-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="15"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="deadhead"/>
```

```
                <xs:enumeration value="dwell"/>
                <xs:enumeration value="layover"/>
                <xs:enumeration value="makeUp"/>
                <xs:enumeration value="overtime"/>
                <xs:enumeration value="pullIn"/>
                <xs:enumeration value="pullOut"/>
                <xs:enumeration value="spread"/>
                <xs:enumeration value="travel"/>
                <xs:enumeration value="turnInAllowance"/>
                <xs:enumeration value="report"/>
                <xs:enumeration value="platform"/>
                <xs:enumeration value="break"/>
                <xs:enumeration value="mealBreak"/>
                <xs:enumeration value="inService"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:SCH-OperatingTimeType"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element SCH-NoteMsg-->
<xs:simpleType name="SCH-NoteMsg">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SCH-NoteID-->
<xs:simpleType name="SCH-NoteID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SCH-NoteDesignator-->
<xs:simpleType name="SCH-NoteDesignator">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SCH-DayTypeDescription-->
<xs:simpleType name="SCH-DayTypeDescription">
    <xs:restriction base="xs:string">
```

```
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SCH-DayType-->
    <xs:simpleType name="SCH-DayType">
        <xs:annotation>
            <xs:appinfo>
Sunday (1) -- Sunday
Monday (2) -- Monday
Tuesday (3) -- Tuesday
Wednesday (4) -- Wednesday
Thursday (5) -- Thursday
Friday (6) -- Friday
Saturday (7) -- Saturday
holiday (8) -- Holiday
weekday (9) -- Weekday
weekend (10) -- Weekend
weekdaySchoolClosed (11) -- Weekday, school closed
 -- 12-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="11"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="Sunday"/>
                    <xs:enumeration value="Monday"/>
                    <xs:enumeration value="Tuesday"/>
                    <xs:enumeration value="Wednesday"/>
                    <xs:enumeration value="Thursday"/>
                    <xs:enumeration value="Friday"/>
                    <xs:enumeration value="Saturday"/>
                    <xs:enumeration value="holiday"/>
                    <xs:enumeration value="weekday"/>
                    <xs:enumeration value="weekend"/>
                    <xs:enumeration value="weekdaySchoolClosed"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
```

```
            <xs:simpleType>
                <xs:restriction base="local:SCH-DayType"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element SCH-BlockName-->
    <xs:simpleType name="SCH-BlockName">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SCH-BlockID-->
    <xs:simpleType name="SCH-BlockID">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SCH-BlockDesignator-->
    <xs:simpleType name="SCH-BlockDesignator">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SCH-AnnouncementLocationID-->
    <xs:simpleType name="SCH-AnnouncementLocationID">
        <xs:restriction base="xs:unsignedByte"/>
    </xs:simpleType>
    <!-- Element SCH-AnnouncementID-->
    <xs:simpleType name="SCH-AnnouncementID">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element SCH-ActivationTypeDesc-->
    <xs:simpleType name="SCH-ActivationTypeDesc">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SCH-ActivationType-->
    <xs:simpleType name="SCH-ActivationType">
        <xs:annotation>
            <xs:appinfo>
annTrigger (1) -- announcement trigger
routeAdhOverride (2) -- route adherence override
signChange (3) -- sign change
msgTrigger (4) -- driver message trigger/paddle (relief point)
fareZone (5) -- fare zone
radioZone (6) -- radio zone
```

```
reliefTrigger (7) -- relief trigger
beginLayover (8) -- Begin Layover
endLayover (9) -- End Layover
beginTrip (10) -- Begin Trip
endTrip (11) -- End Trip
beginDeadhead (12) -- Begin Deadhead
endDeadhead (13) -- End Deadhead
routeAdhOverrideEnd (14)
beginAnn (15) -- start an announcement that runs continuously
endAnn (16) -- end an announcement that runs continuously
 -- 17-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="16"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="annTrigger"/>
                    <xs:enumeration value="routeAdhOverride"/>
                    <xs:enumeration value="signChange"/>
                    <xs:enumeration value="msgTrigger"/>
                    <xs:enumeration value="fareZone"/>
                    <xs:enumeration value="radioZone"/>
                    <xs:enumeration value="reliefTrigger"/>
                    <xs:enumeration value="beginLayover"/>
                    <xs:enumeration value="endLayover"/>
                    <xs:enumeration value="beginTrip"/>
                    <xs:enumeration value="endTrip"/>
                    <xs:enumeration value="beginDeadhead"/>
                    <xs:enumeration value="endDeadhead"/>
                    <xs:enumeration value="routeAdhOverrideEnd"/>
                    <xs:enumeration value="beginAnn"/>
                    <xs:enumeration value="endAnn"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:SCH-ActivationType"/>
            </xs:simpleType>
        </xs:union>
```

```
    </xs:simpleType>
    <!-- Element CC-PassengerMiles-->
    <xs:simpleType name="CC-PassengerMiles">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element SCH-PayType-->
    <xs:simpleType name="SCH-PayType">
        <xs:annotation>
            <xs:appinfo>
platform-time (1)
working-time (2)
spread (3)
spread-bonus (4)
overtime (5)
overtime-bonus (6)
other-meal-break (7)
other-paid-break (8)
paid-travel (9)
sign-on-time (10)
sign-off-time (11)
early-shift-bonus (12)
evening-shift-bonus (13)
night-shift-bonus (14)
holiday (15)
holiday-bonus (16)
railBonus (17) -- a higher rate of pay for operating a rail vehicle
longRailBonus (18) -- a higher rate of pay for operating a long rail vehicle
 -- 19-127 reserved
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="18"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="platform-time"/>
                    <xs:enumeration value="working-time"/>
                    <xs:enumeration value="spread"/>
                    <xs:enumeration value="spread-bonus"/>
                    <xs:enumeration value="overtime"/>
                    <xs:enumeration value="overtime-bonus"/>
                    <xs:enumeration value="other-meal-break"/>
                    <xs:enumeration value="other-paid-break"/>
                    <xs:enumeration value="paid-travel"/>
                    <xs:enumeration value="sign-on-time"/>
                    <xs:enumeration value="sign-off-time"/>
                    <xs:enumeration value="early-shift-bonus"/>
```

```
                <xs:enumeration value="evening-shift-bonus"/>
                <xs:enumeration value="night-shift-bonus"/>
                <xs:enumeration value="holiday"/>
                <xs:enumeration value="holiday-bonus"/>
                <xs:enumeration value="railBonus"/>
                <xs:enumeration value="longRailBonus"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element OB-J1587-DGPSScaleFactorUDRESatelliteID-->
<xs:simpleType name="OB-J1587-DGPSScaleFactorUDRESatelliteID">
    <xs:restriction base="xs:unsignedByte"/>
</xs:simpleType>
<!-- Element PI-AnnouncementID-->
<xs:simpleType name="PI-AnnouncementID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SCH-ActivationID-->
<xs:simpleType name="SCH-ActivationID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SP-NodeID-->
<xs:simpleType name="SP-NodeID">
    <xs:restriction base="xs:unsignedInt"/>
</xs:simpleType>
<!-- Element PI-LandmarkName-->
<xs:simpleType name="PI-LandmarkName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element PI-LandmarkDesc-->
<xs:simpleType name="PI-LandmarkDesc">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CC-J1939FlashLampStatus-->
<xs:simpleType name="CC-J1939FlashLampStatus">
    <xs:annotation>
        <xs:appinfo>
slowFlash (0) -- slow flash
```

```
fastFlash (1) -- fast flash
reserved (2) -- reserved
unavailable (3) -- unavailable/no signal
 -- 5-100 reserved
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="0"/>
                    <xs:maxInclusive value="3"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="slowFlash"/>
                    <xs:enumeration value="fastFlash"/>
                    <xs:enumeration value="reserved"/>
                    <xs:enumeration value="unavailable"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CC-J1939DiagnosticTroubleCode-->
    <xs:simpleType name="CC-J1939DiagnosticTroubleCode">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element CPT-AgencyDesignator-->
    <xs:simpleType name="CPT-AgencyDesignator">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SP-AngularDirection-->
    <xs:simpleType name="SP-AngularDirection">
        <xs:restriction base="xs:unsignedShort"/>
    </xs:simpleType>
    <!-- Element FC-ValueRemaining-->
    <xs:simpleType name="FC-ValueRemaining">
        <xs:restriction base="xs:unsignedShort"/>
    </xs:simpleType>
    <!-- Element FC-ValueDeduct-->
    <xs:simpleType name="FC-ValueDeduct">
        <xs:restriction base="xs:unsignedShort"/>
    </xs:simpleType>
    <!-- Element FC-ValueAdd-->
    <xs:simpleType name="FC-ValueAdd">
        <xs:restriction base="xs:unsignedShort"/>
    </xs:simpleType>
    <!-- Element FC-TransactionResult-->
```

```
    <xs:simpleType name="FC-TransactionResult">
        <xs:annotation>
            <xs:appinfo>
comment (0) -- comment
successful-transaction (1) -- successful transaction
read-error (10) -- read error
write-error (20) -- write error
verify-error (30) -- verify error
validation-status-error (40) -- validation status error
status-error (50) -- status error
other (60) -- other
 -- 61-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="0"/>
                    <xs:maxInclusive value="60"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="comment"/>
                    <xs:enumeration value="successful-transaction"/>
                    <xs:enumeration value="read-error"/>
                    <xs:enumeration value="write-error"/>
                    <xs:enumeration value="verify-error"/>
                    <xs:enumeration value="validation-status-error"/>
                    <xs:enumeration value="status-error"/>
                    <xs:enumeration value="other"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:FC-TransactionResult"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element OB-PGN-->
    <xs:simpleType name="OB-PGN">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element OB-SPN-->
    <xs:simpleType name="OB-SPN">
```

```
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element OB-ParameterStringValue-->
    <xs:simpleType name="OB-ParameterStringValue">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element FC-RidersOnFIMax-->
    <xs:simpleType name="FC-RidersOnFIMax">
        <xs:restriction base="xs:unsignedByte"/>
    </xs:simpleType>
    <!-- Element FC-RidersOnFareInstr-->
    <xs:simpleType name="FC-RidersOnFareInstr">
        <xs:restriction base="xs:unsignedByte"/>
    </xs:simpleType>
    <!-- Element FC-RideInstrID-->
    <xs:simpleType name="FC-RideInstrID">
        <xs:restriction base="xs:unsignedByte"/>
    </xs:simpleType>
    <!-- Element OB-ParameterNumericValue-->
    <xs:simpleType name="OB-ParameterNumericValue">
        <xs:restriction base="xs:long"/>
    </xs:simpleType>
    <!-- Element CC-EmergencyCode-->
    <xs:simpleType name="CC-EmergencyCode">
        <xs:annotation>
            <xs:appinfo>
silentAlarm (1) -- silent alarm activated
passengerAlarm (2) -- passenger alarm activated
emergencySignal (3)
 -- 4-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="3"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="silentAlarm"/>
                    <xs:enumeration value="passengerAlarm"/>
                    <xs:enumeration value="emergencySignal"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
```

```
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:CC-EmergencyCode"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CPT-LanguageIdentifier-->
    <xs:simpleType name="CPT-LanguageIdentifier">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element FC-PassInstrType-->
    <xs:simpleType name="FC-PassInstrType">
        <xs:annotation>
            <xs:appinfo>
mag-stripe (1) -- Magnetic stripe
flash-pass (2) -- Flash pass
transit-check (3) -- Transit check
smart-card (4) -- Smart card
employee (5)
senior (6)
handicap (7)
vip (8)
transit-quest (9)
contractor (10)
monthly (11)
daily (12)
annual (13)
parking (14)
 -- 15-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="14"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="mag-stripe"/>
                    <xs:enumeration value="flash-pass"/>
                    <xs:enumeration value="transit-check"/>
```

```
                <xs:enumeration value="smart-card"/>
                <xs:enumeration value="employee"/>
                <xs:enumeration value="senior"/>
                <xs:enumeration value="handicap"/>
                <xs:enumeration value="vip"/>
                <xs:enumeration value="transit-quest"/>
                <xs:enumeration value="contractor"/>
                <xs:enumeration value="monthly"/>
                <xs:enumeration value="daily"/>
                <xs:enumeration value="annual"/>
                <xs:enumeration value="parking"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:FC-PassInstrType"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element FC-PassInstrID-->
<xs:simpleType name="FC-PassInstrID">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element FC-MonetaryInstrValue-->
<xs:simpleType name="FC-MonetaryInstrValue">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element FC-MonetaryInstrType-->
<xs:simpleType name="FC-MonetaryInstrType">
    <xs:annotation>
        <xs:appinfo>
bill (1) -- bill
coin (2) -- coin
token (3) -- token
ticket (4) -- ticket
debit (5) -- debit: money is in acct and transferred to acct; external to the transit agency
stored-value (6) -- stored value: prepaid cash; internal cash instrumentissued by property
charge (7) -- charge:  federal institution extends credit
hybrid (8) -- hybrid
transit-check (9) -- transit check
check-card (10) -- check card
 -- 11-127 reserved
 -- 128-255 local content
</xs:appinfo>
    </xs:annotation>
    <xs:union>
```

```
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="10"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="bill"/>
                    <xs:enumeration value="coin"/>
                    <xs:enumeration value="token"/>
                    <xs:enumeration value="ticket"/>
                    <xs:enumeration value="debit"/>
                    <xs:enumeration value="stored-value"/>
                    <xs:enumeration value="charge"/>
                    <xs:enumeration value="hybrid"/>
                    <xs:enumeration value="transit-check"/>
                    <xs:enumeration value="check-card"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:FC-MonetaryInstrType"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CC-AlarmCode-->
    <xs:simpleType name="CC-AlarmCode">
        <xs:annotation>
            <xs:appinfo>
fire (1)
smoke (2)
high-acceleration (3) -- e.g. accident
fuel-spill (4)
 -- 5-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="4"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
```

```
                <xs:restriction base="xs:string">
                    <xs:enumeration value="fire"/>
                    <xs:enumeration value="smoke"/>
                    <xs:enumeration value="high-acceleration"/>
                    <xs:enumeration value="fuel-spill"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:CC-AlarmCode"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CC-AnnouncementDesignator-->
    <xs:simpleType name="CC-AnnouncementDesignator">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element FC-MonetaryInstrAuth-->
    <xs:simpleType name="FC-MonetaryInstrAuth">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element FC-FIStandard-->
    <xs:simpleType name="FC-FIStandard">
        <xs:annotation>
            <xs:appinfo>
none (1) -- none
iso-8583-1995 (2) -- ISO 8583:1993 (parts 1-3)
iso-4909-1987 (3) -- ISO 4909:1987
iso-9992-1990 (4) -- ISO 9992:1990 (parts 1 and 2)
vei-1997 (5) -- VEI:1997 tbd
 -- 10-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="5"/>
                </xs:restriction>
```

```
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="none"/>
                    <xs:enumeration value="iso-8583-1995"/>
                    <xs:enumeration value="iso-4909-1987"/>
                    <xs:enumeration value="iso-9992-1990"/>
                    <xs:enumeration value="vei-1997"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:FC-FIStandard"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element FC-FinancialTransactionType-->
    <xs:simpleType name="FC-FinancialTransactionType">
        <xs:annotation>
            <xs:appinfo>
money-received (1) -- Money received
money-dispensed (2) -- Money dispensed
electronic-credit (3) -- Electronic - credit
electronic-debit (4) -- Electronic - debit
sc-payment (5) -- Smart card payment
combo (6) -- Combo (split payment)
transit-check (7) -- Transit check
smart-card-object (8) -- download a smartcard object record.
Alight-record (9) -- download an alighting record.
Token-received (10) -- record payment by token(s)
pass-used (11)
sc-add-value (12)
transfer-issued (13)
transfer-accepted (14)
sc-sold (15)
ticket-sold (16)
mag-card-sold (17)
pass-sold (18)
token-sold (19)
 -- 20-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
```

```
                <xs:minInclusive value="1"/>
                <xs:maxInclusive value="19"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="money-received"/>
                <xs:enumeration value="money-dispensed"/>
                <xs:enumeration value="electronic-credit"/>
                <xs:enumeration value="electronic-debit"/>
                <xs:enumeration value="sc-payment"/>
                <xs:enumeration value="combo"/>
                <xs:enumeration value="transit-check"/>
                <xs:enumeration value="smart-card-object"/>
                <xs:enumeration value="Alight-record"/>
                <xs:enumeration value="Token-received"/>
                <xs:enumeration value="pass-used"/>
                <xs:enumeration value="sc-add-value"/>
                <xs:enumeration value="transfer-issued"/>
                <xs:enumeration value="transfer-accepted"/>
                <xs:enumeration value="sc-sold"/>
                <xs:enumeration value="ticket-sold"/>
                <xs:enumeration value="mag-card-sold"/>
                <xs:enumeration value="pass-sold"/>
                <xs:enumeration value="token-sold"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:FC-FinancialTransactionType"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element FC-FinancialTransactionID-->
<xs:simpleType name="FC-FinancialTransactionID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SCH-ValidationErrorType-->
<xs:simpleType name="SCH-ValidationErrorType">
    <xs:annotation>
        <xs:appinfo>
timepointPatternInc (1)
timepointPatternSegmentInc (2)
```

```
timepointRunningTimeInc (3)
timepointMissing (4)
stoppointPatternInc (5)
stoppointPatternSegmentInc (6)
stoppointMissing (7)
transfersTripsInc (8)
transfersStoppointsInc (9)
transfersPatternInc (10)
transfersPatternSegmentInc (11)
transfersNotesMissing (12)
patternsNotesMissing (13)
tripsNotesMissing (14)
timpointsNotesMissing (15)
stoppointsNotesMissing (16)
runsTripsInc (17)
blocksTripsInc (18)
patternsTripsInc (19)
patternSegmentsTripsInc (20)
patternGeoInc (21)
patternSegmentGeoInc (22)
stoppointInactive (23)
timepointInactive (24)
patternInactive (25)
patternSegmentInactive (26)
patternVersionUnavailable (27)
routeVersionUnavailable (28)
timepointVersionUnavailable (29)
stoppointVersionUnavailable (30)
transfersUnavailable (40)
runsUnavailable (41)
blocksUnavailable (42)
 -- 43-101 reserved
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="42"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="timepointPatternInc"/>
                    <xs:enumeration value="timepointPatternSegmentInc"/>
                    <xs:enumeration value="timepointRunningTimeInc"/>
                    <xs:enumeration value="timepointMissing"/>
                    <xs:enumeration value="stoppointPatternInc"/>
                    <xs:enumeration value="stoppointPatternSegmentInc"/>
                    <xs:enumeration value="stoppointMissing"/>
                    <xs:enumeration value="transfersTripsInc"/>
```

```
                <xs:enumeration value="transfersStoppointsInc"/>
                <xs:enumeration value="transfersPatternInc"/>
                <xs:enumeration value="transfersPatternSegmentInc"/>
                <xs:enumeration value="transfersNotesMissing"/>
                <xs:enumeration value="patternsNotesMissing"/>
                <xs:enumeration value="tripsNotesMissing"/>
                <xs:enumeration value="timpointsNotesMissing"/>
                <xs:enumeration value="stoppointsNotesMissing"/>
                <xs:enumeration value="runsTripsInc"/>
                <xs:enumeration value="blocksTripsInc"/>
                <xs:enumeration value="patternsTripsInc"/>
                <xs:enumeration value="patternSegmentsTripsInc"/>
                <xs:enumeration value="patternGeoInc"/>
                <xs:enumeration value="patternSegmentGeoInc"/>
                <xs:enumeration value="stoppointInactive"/>
                <xs:enumeration value="timepointInactive"/>
                <xs:enumeration value="patternInactive"/>
                <xs:enumeration value="patternSegmentInactive"/>
                <xs:enumeration value="patternVersionUnavailable"/>
                <xs:enumeration value="routeVersionUnavailable"/>
                <xs:enumeration value="timepointVersionUnavailable"/>
                <xs:enumeration value="stoppointVersionUnavailable"/>
                <xs:enumeration value="transfersUnavailable"/>
                <xs:enumeration value="runsUnavailable"/>
                <xs:enumeration value="blocksUnavailable"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element SCH-TransferID-->
<xs:simpleType name="SCH-TransferID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element FC-FareZoneIndex-->
<xs:simpleType name="FC-FareZoneIndex">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-AddlLanguageContent-->
<xs:simpleType name="CPT-AddlLanguageContent">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SP-FeatureDesignator-->
```

```
<xs:simpleType name="SP-FeatureDesignator">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element FC-FareMediaID-txt-->
<xs:simpleType name="FC-FareMediaID-txt">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element FC-FareMediaID-nbr-->
<xs:simpleType name="FC-FareMediaID-nbr">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element FC-FareInstrID-->
<xs:simpleType name="FC-FareInstrID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element FC-FareCost-->
<xs:simpleType name="FC-FareCost">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element CC-DestinationSignName-->
<xs:simpleType name="CC-DestinationSignName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CC-DestinationSignDesignator-->
<xs:simpleType name="CC-DestinationSignDesignator">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element SCH-AnnouncementDesignator-->
<xs:simpleType name="SCH-AnnouncementDesignator">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
```

```
    </xs:simpleType>
    <!-- Element FC-FareCharacterCostIndex-->
    <xs:simpleType name="FC-FareCharacterCostIndex">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element FC-ComponentStatusType-->
    <xs:simpleType name="FC-ComponentStatusType">
        <xs:annotation>
            <xs:appinfo>
in-service (1) -- In-service
out-of-service (2) -- Out of service
maintenance-mode (3) -- Maintenance mode
freewheel-mode (4) -- Freewheel mode (no pay)
diagnostic-mode (5) -- Diagnostic mode
alarm-triggered (6) -- Alarm triggered
gate-entry-only (7) -- Gate mode open for entry only
gate-exit-only (8) -- Gate mode open for exit only
gate-entry-and-exit (9) -- Gate mode open for entry/exit                    command-disabled
(10),
 -- 11-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="9"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="in-service"/>
                    <xs:enumeration value="out-of-service"/>
                    <xs:enumeration value="maintenance-mode"/>
                    <xs:enumeration value="freewheel-mode"/>
                    <xs:enumeration value="diagnostic-mode"/>
                    <xs:enumeration value="alarm-triggered"/>
                    <xs:enumeration value="gate-entry-only"/>
                    <xs:enumeration value="gate-exit-only"/>
                    <xs:enumeration value="gate-entry-and-exit"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
```

```
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:FC-ComponentStatusType"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element FC-ComponentID-->
    <xs:simpleType name="FC-ComponentID">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element FC-ComponentEventType-->
    <xs:simpleType name="FC-ComponentEventType">
        <xs:annotation>
            <xs:appinfo>
voltage-dropout (1) -- voltage dropout
voltage-restored (2) -- voltage restored
probe-started (3) -- probe started
probe-completed (4) -- probe completed
cashbox-removed (5) -- cashbox removed
cashbox-restored (6) -- cashbox restored
cashbox-door-timeout (7) -- cashbox door timeout
cashbox-opened-is (8) -- cashbox opened in service
insufficient-fare (9) -- insufficient fare accepted
coinbox-75-full (10) -- coinbox 75% full
coinbox-full (11) -- coinbox full
currencybox-75-full (12) -- currency box 75% full
currencybox-under-75 (13) -- currency box less than 75% full
currencybox-full (14) -- currency box full
cardpassbox-75-full (15) -- card/pass box 75% full
cardpassbox-under-75 (16) -- card/pass box less than 75% full
cardpassbox-full (17) -- card/pass box full
coin-dejam (18) -- coin de-jam operated
farebox-manual-bypass (19) -- farebox set in manual bypass
farebox-automatic (20) -- farebox reset to automatic mode
pass-jam (21) -- pass/transfer jam
pass-jam-cleared (22) -- pass/transfer jam cleared
pass-currency-jam (23) -- pass currency jam
maintenance-access-is (24) -- maintenance access - in service
maintenance-access-oos (25) -- maintenance access - out of service
alarm-module-failure (26) -- alarm module failure
battery-failure (27) -- battery failure
battery-low (28) -- battery low
cardcapturebin-75-full (29) -- card capture bin 75%  full
cardcapturebin-full (30) -- -card capture bin full
card-stock-1-low (31) -- Fare card stock type 1 is low
card-stock-1-out (32) -- Fare card stock type 1 is out
card-stock-2-low (33) -- Fare card stock type 2 is low
card-stock-2-out (34) -- Fare card stock type 2 is out
card-stock-3-low (35) -- Fare card stock type 3 is low
card-stock-3-out (36) -- Fare card stock type 3 is out
card-stock-4-low (37) -- Fare card stock type 4 is low
```

```
card-stock-4-out (38) -- Fare card stock type 4 is out
card-stock-5-low (39) -- Fare card stock type 5 is low
card-stock-5-out (40) -- Fare card stock type 5 is out
card-stock-6-low (41) -- Fare card stock type 6 is low
card-stock-6-out (42) -- Fare card stock type 6 is out
clock-error (43) -- Equipment controller board clock error
coin-acceptor-fault (44) -- Coin acceptor fault
communications-loss (45) -- Loss of communications with local devices
maintenance-door-open (46) -- Maintenance door open
maintenance-door-closed (47) -- Maintenance door closed
motion-sensor-alarm-on (48) -- Motion sensor alarm triggered
power-reset (49) -- Power reset
communications-lost (50) -- Local station communications lost
receipt-low (51) -- Receipt low
receipt-out (52) -- Receipt out
credit-debit-failure (53) -- credit/debit failure (out of service)
gate-failure (54) -- gate failure (turnstile and parking)
banknote-validation-failure (55) -- bank note validation failure
breakin-alarm (56)
 -- 56-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="56"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="voltage-dropout"/>
                    <xs:enumeration value="voltage-restored"/>
                    <xs:enumeration value="probe-started"/>
                    <xs:enumeration value="probe-completed"/>
                    <xs:enumeration value="cashbox-removed"/>
                    <xs:enumeration value="cashbox-restored"/>
                    <xs:enumeration value="cashbox-door-timeout"/>
                    <xs:enumeration value="cashbox-opened-is"/>
                    <xs:enumeration value="insufficient-fare"/>
                    <xs:enumeration value="coinbox-75-full"/>
                    <xs:enumeration value="coinbox-full"/>
                    <xs:enumeration value="currencybox-75-full"/>
                    <xs:enumeration value="currencybox-under-75"/>
                    <xs:enumeration value="currencybox-full"/>
                    <xs:enumeration value="cardpassbox-75-full"/>
                    <xs:enumeration value="cardpassbox-under-75"/>
                    <xs:enumeration value="cardpassbox-full"/>
                    <xs:enumeration value="coin-dejam"/>
                    <xs:enumeration value="farebox-manual-bypass"/>
```

```
            <xs:enumeration value="farebox-automatic"/>
            <xs:enumeration value="pass-jam"/>
            <xs:enumeration value="pass-jam-cleared"/>
            <xs:enumeration value="pass-currency-jam"/>
            <xs:enumeration value="maintenance-access-is"/>
            <xs:enumeration value="maintenance-access-oos"/>
            <xs:enumeration value="alarm-module-failure"/>
            <xs:enumeration value="battery-failure"/>
            <xs:enumeration value="battery-low"/>
            <xs:enumeration value="cardcapturebin-75-full"/>
            <xs:enumeration value="cardcapturebin-full"/>
            <xs:enumeration value="card-stock-1-low"/>
            <xs:enumeration value="card-stock-1-out"/>
            <xs:enumeration value="card-stock-2-low"/>
            <xs:enumeration value="card-stock-2-out"/>
            <xs:enumeration value="card-stock-3-low"/>
            <xs:enumeration value="card-stock-3-out"/>
            <xs:enumeration value="card-stock-4-low"/>
            <xs:enumeration value="card-stock-4-out"/>
            <xs:enumeration value="card-stock-5-low"/>
            <xs:enumeration value="card-stock-5-out"/>
            <xs:enumeration value="card-stock-6-low"/>
            <xs:enumeration value="card-stock-6-out"/>
            <xs:enumeration value="clock-error"/>
            <xs:enumeration value="coin-acceptor-fault"/>
            <xs:enumeration value="communications-loss"/>
            <xs:enumeration value="maintenance-door-open"/>
            <xs:enumeration value="maintenance-door-closed"/>
            <xs:enumeration value="motion-sensor-alarm-on"/>
            <xs:enumeration value="power-reset"/>
            <xs:enumeration value="communications-lost"/>
            <xs:enumeration value="receipt-low"/>
            <xs:enumeration value="receipt-out"/>
            <xs:enumeration value="credit-debit-failure"/>
            <xs:enumeration value="gate-failure"/>
            <xs:enumeration value="banknote-validation-failure"/>
            <xs:enumeration value="breakin-alarm"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType>
        <xs:restriction base="xs:unsignedInt">
            <xs:minInclusive value="128"/>
            <xs:maxInclusive value="255"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType>
        <xs:restriction base="local:FC-ComponentEventType"/>
    </xs:simpleType>
  </xs:union>
</xs:simpleType>
<!-- Element CC-AnnouncementName-->
```

```
    <xs:simpleType name="CC-AnnouncementName">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SCH-ActivationDesignator-->
    <xs:simpleType name="SCH-ActivationDesignator">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SCH-ActivationName-->
    <xs:simpleType name="SCH-ActivationName">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-TrafficSignalType-->
    <xs:simpleType name="CPT-TrafficSignalType">
        <xs:annotation>
            <xs:appinfo>
normal (1)
flashingRed (2)
flashingYellow (3)
busOnly (4)
queueJump (5)
rightOnRed (6)
leftOnRed (7)
 -- 8-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="7"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="normal"/>
                    <xs:enumeration value="flashingRed"/>
                    <xs:enumeration value="flashingYellow"/>
                    <xs:enumeration value="busOnly"/>
                    <xs:enumeration value="queueJump"/>
                    <xs:enumeration value="rightOnRed"/>
                    <xs:enumeration value="leftOnRed"/>
```

```
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:CPT-TrafficSignalType"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element OB-J1587-DGPSRangeRateCorrection-->
<xs:simpleType name="OB-J1587-DGPSRangeRateCorrection">
    <xs:restriction base="xs:byte"/>
</xs:simpleType>
<!-- Element OB-J1587-DGPSIssueofData-->
<xs:simpleType name="OB-J1587-DGPSIssueofData">
    <xs:restriction base="xs:unsignedByte"/>
</xs:simpleType>
<!-- Element CPT-VIN-->
<xs:simpleType name="CPT-VIN">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="17"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-VersionNo-->
<xs:simpleType name="CPT-VersionNo">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-VehicleModelYear-->
<xs:simpleType name="CPT-VehicleModelYear">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="4"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-TransitFacilityType-->
<xs:simpleType name="CPT-TransitFacilityType">
    <xs:annotation>
        <xs:appinfo>
central (1) -- Central Office
garage (2) -- Garage
operatorBase (3) -- Operator base
busBase (4) -- Bus vehicle base
railBase (5) -- Rail vehicle base
```

```
modeVehBase (6) -- multimodal vehicle base
busMaintenance (7) -- Bus Vehicle maintenance garage
railMaintenance (8) -- Rail Vehicle maintenance garage
modeVehMaintenance (9) -- Multimode vehicle maintenance garage
centralMaintenance (10) -- Central maintenance facility
mow (11) -- Maintenace of Way (MOW)
fareSales (12) -- Fare media sales office
fleetOperations (13) -- Bus fleet operations center
railOperations (14) -- Rail operations center
policeAndEMC (15) -- Transit police and emergency service center
reservationsDR (16) -- Demand-responsive reservations center
dispatchDR (17) -- Demand-Responsive dispatch center
shelter (18) -- Shelter
revenueCollection (19) -- Revenue collection facility
centralWarehouse (20) -- Central warehouse
medical (21) -- Drug testing/medical facility
airport (22) -- Airport
parkingNonRevenuePTV (23) -- Non-revenue PTV parking
parkingEmployee (24) -- employee parking
parkingRevenuePTV (25) -- revenue vehicle parking
parkingCustomer (26) -- customer parking
parkingKandR (27) -- kiss and ride parking
constructionSite (28) -- construction site
propertyVacant (29) -- vacant property
propertyCommercial (30) -- commercial property
propertyRental (31) -- rental property
stationRail (32) -- rail station
port (33) -- slip, port
training (34) -- training center
storage (35) -- Store room/equipment storage
 -- 36-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="35"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="central"/>
                    <xs:enumeration value="garage"/>
                    <xs:enumeration value="operatorBase"/>
                    <xs:enumeration value="busBase"/>
                    <xs:enumeration value="railBase"/>
                    <xs:enumeration value="modeVehBase"/>
                    <xs:enumeration value="busMaintenance"/>
                    <xs:enumeration value="railMaintenance"/>
```

```
                <xs:enumeration value="modeVehMaintenance"/>
                <xs:enumeration value="centralMaintenance"/>
                <xs:enumeration value="mow"/>
                <xs:enumeration value="fareSales"/>
                <xs:enumeration value="fleetOperations"/>
                <xs:enumeration value="railOperations"/>
                <xs:enumeration value="policeAndEMC"/>
                <xs:enumeration value="reservationsDR"/>
                <xs:enumeration value="dispatchDR"/>
                <xs:enumeration value="shelter"/>
                <xs:enumeration value="revenueCollection"/>
                <xs:enumeration value="centralWarehouse"/>
                <xs:enumeration value="medical"/>
                <xs:enumeration value="airport"/>
                <xs:enumeration value="parkingNonRevenuePTV"/>
                <xs:enumeration value="parkingEmployee"/>
                <xs:enumeration value="parkingRevenuePTV"/>
                <xs:enumeration value="parkingCustomer"/>
                <xs:enumeration value="parkingKandR"/>
                <xs:enumeration value="constructionSite"/>
                <xs:enumeration value="propertyVacant"/>
                <xs:enumeration value="propertyCommercial"/>
                <xs:enumeration value="propertyRental"/>
                <xs:enumeration value="stationRail"/>
                <xs:enumeration value="port"/>
                <xs:enumeration value="training"/>
                <xs:enumeration value="storage"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:CPT-TransitFacilityType"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element CPT-VehicleDesignator-->
<xs:simpleType name="CPT-VehicleDesignator">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element FC-TransactionDescription-->
<xs:simpleType name="FC-TransactionDescription">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
```

```
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element FC-TimePeriodIndex-->
<xs:simpleType name="FC-TimePeriodIndex">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element FC-SubassemblyID-->
<xs:simpleType name="FC-SubassemblyID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="20"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element FC-RideValueRemaining-->
<xs:simpleType name="FC-RideValueRemaining">
    <xs:restriction base="xs:unsignedShort"/>
</xs:simpleType>
<!-- Element FC-RideValueDeduct-->
<xs:simpleType name="FC-RideValueDeduct">
    <xs:restriction base="xs:unsignedByte"/>
</xs:simpleType>
<!-- Element FC-RideValueAdd-->
<xs:simpleType name="FC-RideValueAdd">
    <xs:restriction base="xs:unsignedByte"/>
</xs:simpleType>
<!-- Element FC-RideValue-->
<xs:simpleType name="FC-RideValue">
    <xs:restriction base="xs:unsignedByte"/>
</xs:simpleType>
<!-- Element CPT-VehicleName-->
<xs:simpleType name="CPT-VehicleName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-StoppointDesignator-->
<xs:simpleType name="CPT-StoppointDesignator">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element FC-ComponentEventID-->
<xs:simpleType name="FC-ComponentEventID">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element FC-ComponentErrorType-->
<xs:simpleType name="FC-ComponentErrorType">
    <xs:annotation>
```

```
            <xs:appinfo>
bill-accept (1) -- bill accept
bill-count (2) -- bill count
bill-escrow (3) -- bill escrow
bill-operation (4) -- bill operation
bill-stacker (5) -- bill stacker
card-read-1 (6) -- card read (1st try)
card-read-2 (7) -- card read (2nd try)
card-read-3 (8) -- card read (3rd try)
card-reject (9) -- card reject
card-write (10) -- card write
coin-accept (11) -- coin accept
coin-count (12) -- coin count
coin-operation (13) -- coin operation
power-loss (14) -- power loss
feed (15) -- feed
transport (16) -- transport
printer (17) -- printer
 -- 18-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="17"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="bill-accept"/>
                    <xs:enumeration value="bill-count"/>
                    <xs:enumeration value="bill-escrow"/>
                    <xs:enumeration value="bill-operation"/>
                    <xs:enumeration value="bill-stacker"/>
                    <xs:enumeration value="card-read-1"/>
                    <xs:enumeration value="card-read-2"/>
                    <xs:enumeration value="card-read-3"/>
                    <xs:enumeration value="card-reject"/>
                    <xs:enumeration value="card-write"/>
                    <xs:enumeration value="coin-accept"/>
                    <xs:enumeration value="coin-count"/>
                    <xs:enumeration value="coin-operation"/>
                    <xs:enumeration value="power-loss"/>
                    <xs:enumeration value="feed"/>
                    <xs:enumeration value="transport"/>
                    <xs:enumeration value="printer"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
```

```
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:FC-ComponentErrorType"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element OB-ScheduleAdherenceOffset-->
<xs:simpleType name="OB-ScheduleAdherenceOffset">
    <xs:restriction base="xs:long"/>
</xs:simpleType>
<!-- Element SCH-PatternSegmentID-->
<xs:simpleType name="SCH-PatternSegmentID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element PI-GeoZoneName-->
<xs:simpleType name="PI-GeoZoneName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element PI-GeoZoneID-->
<xs:simpleType name="PI-GeoZoneID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CPT-FileContent-->
<xs:complexType name="CPT-FileContent">
    <xs:simpleContent>
        <xs:extension base="CPT-FileContent-string">
            <xs:attribute name="EncodingType" use="required">
                <xs:simpleType>
                    <xs:restriction base="xs:NMTOKEN">
                        <xs:enumeration value="base64Binary"/>
                    </xs:restriction>
                </xs:simpleType>
            </xs:attribute>
        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
<xs:simpleType name="CPT-FileContent-string">
    <xs:restriction base="xs:base64Binary">
```

```
        <xs:minLength value="2"/>
        <xs:maxLength value="2680000"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element OB-Rate-->
<xs:simpleType name="OB-Rate">
    <xs:restriction base="xs:unsignedShort"/>
</xs:simpleType>
<!-- Element OB-PID-->
<xs:simpleType name="OB-PID">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element OB-PassengerBoarding-->
<xs:simpleType name="OB-PassengerBoarding">
    <xs:restriction base="xs:unsignedShort"/>
</xs:simpleType>
<!-- Element OB-PassengerAlighting-->
<xs:simpleType name="OB-PassengerAlighting">
    <xs:restriction base="xs:unsignedShort"/>
</xs:simpleType>
<!-- Element OB-MID-->
<xs:simpleType name="OB-MID">
    <xs:restriction base="xs:unsignedByte"/>
</xs:simpleType>
<!-- Element CPT-TransferClusterID-->
<xs:simpleType name="CPT-TransferClusterID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element IM-WorkPhone-->
<xs:simpleType name="IM-WorkPhone">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="16"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element IM-WitnessStatement-->
<xs:simpleType name="IM-WitnessStatement">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="50000"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element IM-VehicleYear-->
<xs:simpleType name="IM-VehicleYear">
    <xs:restriction base="xs:unsignedShort"/>
</xs:simpleType>
<!-- Element IM-VehicleTag-->
<xs:simpleType name="IM-VehicleTag">
```

```
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element IM-VehicleState-->
    <xs:simpleType name="IM-VehicleState">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element IM-VehicleOccupantCount-->
    <xs:simpleType name="IM-VehicleOccupantCount">
        <xs:restriction base="xs:unsignedByte"/>
    </xs:simpleType>
    <!-- Element IM-VehicleModel-->
    <xs:simpleType name="IM-VehicleModel">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="20"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element IM-VehicleMake-->
    <xs:simpleType name="IM-VehicleMake">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="20"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element IM-VehicleInvolvedType-->
    <xs:simpleType name="IM-VehicleInvolvedType">
        <xs:annotation>
            <xs:appinfo>
ptv (1) -- Public transit vehicle
train (2) -- Train
auto (3) -- Automobile
truck (4) -- Truck
motorbike (5) -- Motorbike
bike (6) -- Bicycle
farm-vehicle (7)
private-bus (8)
school-bus (9)
van (10)
police-vehicle (11)
ambulance (12)
fire-truck (13)
fire-dept-other (14)
construction-vehicle (15)
light-rail-vehicle (16)
subway-vehicle (17)
```

```
commuter-train (18)
passenger-train (19)
freight-train (20)
 -- 21-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="20"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="ptv"/>
                    <xs:enumeration value="train"/>
                    <xs:enumeration value="auto"/>
                    <xs:enumeration value="truck"/>
                    <xs:enumeration value="motorbike"/>
                    <xs:enumeration value="bike"/>
                    <xs:enumeration value="farm-vehicle"/>
                    <xs:enumeration value="private-bus"/>
                    <xs:enumeration value="school-bus"/>
                    <xs:enumeration value="van"/>
                    <xs:enumeration value="police-vehicle"/>
                    <xs:enumeration value="ambulance"/>
                    <xs:enumeration value="fire-truck"/>
                    <xs:enumeration value="fire-dept-other"/>
                    <xs:enumeration value="construction-vehicle"/>
                    <xs:enumeration value="light-rail-vehicle"/>
                    <xs:enumeration value="subway-vehicle"/>
                    <xs:enumeration value="commuter-train"/>
                    <xs:enumeration value="passenger-train"/>
                    <xs:enumeration value="freight-train"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:IM-VehicleInvolvedType"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element IM-VehicleDescription-->
    <xs:simpleType name="IM-VehicleDescription">
```

```
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element IM-VehicleDamage-->
    <xs:simpleType name="IM-VehicleDamage">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element IM-VehicleColor-->
    <xs:simpleType name="IM-VehicleColor">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="20"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element IM-TransitImpacts-->
    <xs:simpleType name="IM-TransitImpacts">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SCP-VehicleClassLevel-->
    <xs:simpleType name="SCP-VehicleClassLevel">
        <xs:restriction base="xs:unsignedByte"/>
    </xs:simpleType>
    <!-- Element SCP-StatusCodeForPRG-->
    <xs:simpleType name="SCP-StatusCodeForPRG">
        <xs:restriction base="xs:unsignedByte"/>
    </xs:simpleType>
    <!-- Element SCP-StatusForPRG-->
    <xs:simpleType name="SCP-StatusForPRG">
        <xs:restriction base="xs:unsignedByte"/>
    </xs:simpleType>
    <!-- Element TSP-IntersectionPath-->
    <xs:simpleType name="TSP-IntersectionPath">
        <xs:annotation>
            <xs:appinfo>
straight-thru (1) -- approximately 0 degree turn
right-turn (2) -- approximately +90 degree turn
left-turn (3) -- approximately -90 degree turn
u-turn (4) -- approximately 180 degree turn
diag-right-turn (5) -- approximately +45 degree turn
diag-left-turn (6) -- approximately -45 degree turn
sharp-right-turn (7) -- approximately +135 degree turn
sharp-left-turn (8) -- approximately -135    degree turn
 -- 9-50 reserved
```

```
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="8"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="straight-thru"/>
                    <xs:enumeration value="right-turn"/>
                    <xs:enumeration value="left-turn"/>
                    <xs:enumeration value="u-turn"/>
                    <xs:enumeration value="diag-right-turn"/>
                    <xs:enumeration value="diag-left-turn"/>
                    <xs:enumeration value="sharp-right-turn"/>
                    <xs:enumeration value="sharp-left-turn"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CPT-AgencyName-->
    <xs:simpleType name="CPT-AgencyName">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SCP-LoggedEventType-->
    <xs:simpleType name="SCP-LoggedEventType">
        <xs:annotation>
            <xs:appinfo>
priority-request (1) -- priority request message to PRS
priority-request-ack (2) -- to PRG
priority-update (3) -- priority update message to PRS
priority-update-ack (4) -- to PRG
priority-control (5) -- priority status control message to PRS
priority-control-ack (6) -- to PRG
priority-buffer (7) -- priority status buffer message to PRS
priority-buffer-response (8) -- to PRG
priority-cancel (9) -- priority request cancellation message to PRS
priority-cancel-ack (10) -- to PRG
priority-clear (11) -- priority request clear message to PRS
priority-clear-ack (12) -- to PRG
priority-request-grant (21)
priority-request-deny (22)
priority-request-downgrade (23)
priority-request-preempted (24)
priority-request-cleared (25) -- from table
```

```
green-phase-begin (26)
green-phase-end (27)
vehicle-arrival-at-queue (51)
vehicle-arrival-at-stopbar (52)
vehicle-clear-intersection (53)
vehicle-delay-detected (54)
vehicle-diversion-detected (55)
 -- 56-100 reserved
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="55"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="priority-request"/>
                    <xs:enumeration value="priority-request-ack"/>
                    <xs:enumeration value="priority-update"/>
                    <xs:enumeration value="priority-update-ack"/>
                    <xs:enumeration value="priority-control"/>
                    <xs:enumeration value="priority-control-ack"/>
                    <xs:enumeration value="priority-buffer"/>
                    <xs:enumeration value="priority-buffer-response"/>
                    <xs:enumeration value="priority-cancel"/>
                    <xs:enumeration value="priority-cancel-ack"/>
                    <xs:enumeration value="priority-clear"/>
                    <xs:enumeration value="priority-clear-ack"/>
                    <xs:enumeration value="priority-request-grant"/>
                    <xs:enumeration value="priority-request-deny"/>
                    <xs:enumeration value="priority-request-downgrade"/>
                    <xs:enumeration value="priority-request-preempted"/>
                    <xs:enumeration value="priority-request-cleared"/>
                    <xs:enumeration value="green-phase-begin"/>
                    <xs:enumeration value="green-phase-end"/>
                    <xs:enumeration value="vehicle-arrival-at-queue"/>
                    <xs:enumeration value="vehicle-arrival-at-stopbar"/>
                    <xs:enumeration value="vehicle-clear-intersection"/>
                    <xs:enumeration value="vehicle-delay-detected"/>
                    <xs:enumeration value="vehicle-diversion-detected"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element SCP-VehicleClassType-->
    <xs:simpleType name="SCP-VehicleClassType">
        <xs:restriction base="xs:unsignedByte"/>
    </xs:simpleType>
```

```
    <!-- Element SCP-TimeInterval-->
    <xs:simpleType name="SCP-TimeInterval">
        <xs:restriction base="xs:unsignedShort"/>
    </xs:simpleType>
    <!-- Element SCP-PriorityRequestID-->
    <xs:simpleType name="SCP-PriorityRequestID">
        <xs:restriction base="xs:unsignedByte"/>
    </xs:simpleType>
    <!-- Element TSP-ApproachID-->
    <xs:simpleType name="TSP-ApproachID">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element IM-RoleInIncident-->
    <xs:simpleType name="IM-RoleInIncident">
        <xs:annotation>
            <xs:appinfo>
notKnown (0) -- not known
fatality (1) -- Fatality
injury (2) -- Injury
witness (3) -- Witness
driver (4) -- Driver
transitEmployee (5) -- Employee of Transit Agency
publicSafetyEmployee (6) -- Employee of Other Public Safety Agency
report (7) -- Reporter
 -- 8-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="0"/>
                    <xs:maxInclusive value="7"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="notKnown"/>
                    <xs:enumeration value="fatality"/>
                    <xs:enumeration value="injury"/>
                    <xs:enumeration value="witness"/>
                    <xs:enumeration value="driver"/>
                    <xs:enumeration value="transitEmployee"/>
                    <xs:enumeration value="publicSafetyEmployee"/>
                    <xs:enumeration value="report"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
```

```
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:IM-RoleInIncident"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element IM-RestorationAction-->
<xs:simpleType name="IM-RestorationAction">
    <xs:annotation>
        <xs:appinfo>
notKnown (0) -- not known
substitute-Pullout (1) -- Pull out veh. To substitute for veh. Involved
incident-Pull-In (2) -- Pull in the vehicle involved in the incident
dispatch-shuttle (3) -- Dispatch buses to operate a shuttle service
adjust-headways (4) -- Adjust service headways
detour (5) -- Perform detours
coach-change (6)
filled-trip (7)
late-expressed-for-sched (8)
late-run-no-action (9)
late-tun-turned-for-sched (10)
no-action (11)
operator-request (12)
customer-request (13)
rerouted (14)
road-call (15)
fun-jump (16)
service-change (17)
unscheduled-standby (18)
supervisor-action (19)
other (20)
removed (21)
report-requested (22)
yard-change (23)
scheduled-standby (24)
emergency-alarm (25)
 -- 26-127 reserved
 -- 128-255 local content
</xs:appinfo>
    </xs:annotation>
    <xs:union>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="0"/>
                <xs:maxInclusive value="25"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="notKnown"/>
```

```
                <xs:enumeration value="substitute-Pullout"/>
                <xs:enumeration value="incident-Pull-In"/>
                <xs:enumeration value="dispatch-shuttle"/>
                <xs:enumeration value="adjust-headways"/>
                <xs:enumeration value="detour"/>
                <xs:enumeration value="coach-change"/>
                <xs:enumeration value="filled-trip"/>
                <xs:enumeration value="late-expressed-for-sched"/>
                <xs:enumeration value="late-run-no-action"/>
                <xs:enumeration value="late-tun-turned-for-sched"/>
                <xs:enumeration value="no-action"/>
                <xs:enumeration value="operator-request"/>
                <xs:enumeration value="customer-request"/>
                <xs:enumeration value="rerouted"/>
                <xs:enumeration value="road-call"/>
                <xs:enumeration value="fun-jump"/>
                <xs:enumeration value="service-change"/>
                <xs:enumeration value="unscheduled-standby"/>
                <xs:enumeration value="supervisor-action"/>
                <xs:enumeration value="other"/>
                <xs:enumeration value="removed"/>
                <xs:enumeration value="report-requested"/>
                <xs:enumeration value="yard-change"/>
                <xs:enumeration value="scheduled-standby"/>
                <xs:enumeration value="emergency-alarm"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:IM-RestorationAction"/>
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    </xs:union>
</xs:simpleType>
<!-- Element IM-ResponseUnitID-->
<xs:simpleType name="IM-ResponseUnitID">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element TSP-BoundaryID-->
<xs:simpleType name="TSP-BoundaryID">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element TSP-DropAddr-->
<xs:simpleType name="TSP-DropAddr">
    <xs:restriction base="xs:unsignedByte"/>
</xs:simpleType>
<!-- Element IM-ResponseUnitType-->
```

```
    <xs:simpleType name="IM-ResponseUnitType">
        <xs:annotation>
            <xs:appinfo>
ptv-agency (1) -- Transit vehicle of property
ptv-other-agency (2) -- Transit vehicle of another property
police (3) -- Transit Police
supervisor (4) -- Transit Supervisor
repair (5) -- Transit Repair Vehicle
tow-truck (6) -- Transit Tow Truck
track-repair (7) -- Track Repair Vehicle
overhead-wire-repair (8) -- Overhead Wire Repair Vehicle
other-repair (9) -- Other Repair Vehicle
emt-chief (10) -- Emergency Medical Service Chief
advanced-life-support (11) -- Advanced Life Support
basic-life-support (12) -- Basic Life Support
quick-response-unit (13) -- Quick Response Unit
first-responder (14) -- First Responder
medical-evacuation (15) -- Medical Evacuation
other-medical-service (16) -- Other Medical Service
police-supervisor (17) -- Supervisor-Police
patrol-car (18) -- Patrol Car
motorcycle (19) -- Motorcycle
foot-patrol (20) -- Foot Patrol
bicycle-patrol (21) -- Bicycle Patrol
air-unit (22) -- Air Unit
k-9 (23) -- K-9
swat (24) -- SWAT
hostage (25) -- Hostage
bomb-squad (26) -- Bomb Squad
detective (27) -- Detective
medical-examiner (28) -- Coroner / Medical Examiner
police-other (29) -- Police - Other
suppression-chief (30) -- Suppression Chief
engine (31) -- Engine / Plumber
ladder (32) -- Ladder / Tower / Platform
heavy-rescue (33) -- Heavy Rescue / Extrication
brush (34) -- Brush /  Off-Road
hazmat (35) -- Hazardous Material
tech-rescue (36) -- Technical Rescue
foam-unit (37) -- Foam Unit
investigator (38) -- Investigator / Fire Marshall
inspector (39) -- Inspector
 -- 40-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="39"/>
```

```
    </xs:restriction>
</xs:simpleType>
<xs:simpleType>
    <xs:restriction base="xs:string">
        <xs:enumeration value="ptv-agency"/>
        <xs:enumeration value="ptv-other-agency"/>
        <xs:enumeration value="police"/>
        <xs:enumeration value="supervisor"/>
        <xs:enumeration value="repair"/>
        <xs:enumeration value="tow-truck"/>
        <xs:enumeration value="track-repair"/>
        <xs:enumeration value="overhead-wire-repair"/>
        <xs:enumeration value="other-repair"/>
        <xs:enumeration value="emt-chief"/>
        <xs:enumeration value="advanced-life-support"/>
        <xs:enumeration value="basic-life-support"/>
        <xs:enumeration value="quick-response-unit"/>
        <xs:enumeration value="first-responder"/>
        <xs:enumeration value="medical-evacuation"/>
        <xs:enumeration value="other-medical-service"/>
        <xs:enumeration value="police-supervisor"/>
        <xs:enumeration value="patrol-car"/>
        <xs:enumeration value="motorcycle"/>
        <xs:enumeration value="foot-patrol"/>
        <xs:enumeration value="bicycle-patrol"/>
        <xs:enumeration value="air-unit"/>
        <xs:enumeration value="k-9"/>
        <xs:enumeration value="swat"/>
        <xs:enumeration value="hostage"/>
        <xs:enumeration value="bomb-squad"/>
        <xs:enumeration value="detective"/>
        <xs:enumeration value="medical-examiner"/>
        <xs:enumeration value="police-other"/>
        <xs:enumeration value="suppression-chief"/>
        <xs:enumeration value="engine"/>
        <xs:enumeration value="ladder"/>
        <xs:enumeration value="heavy-rescue"/>
        <xs:enumeration value="brush"/>
        <xs:enumeration value="hazmat"/>
        <xs:enumeration value="tech-rescue"/>
        <xs:enumeration value="foam-unit"/>
        <xs:enumeration value="investigator"/>
        <xs:enumeration value="inspector"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType>
    <xs:restriction base="xs:unsignedInt">
        <xs:minInclusive value="128"/>
        <xs:maxInclusive value="255"/>
    </xs:restriction>
</xs:simpleType>
```

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            <xs:simpleType>
                <xs:restriction base="local:IM-ResponseUnitType"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element IM-ResponseEmployeeID-->
    <xs:simpleType name="IM-ResponseEmployeeID">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element IM-ResponseCommands-->
    <xs:simpleType name="IM-ResponseCommands">
        <xs:annotation>
            <xs:appinfo>
verify (1) -- Travel to scene to verify a reported incident
resolve (2) -- Travel to scene to resolve/clear the incident
recall (3) -- Cancel/recall (return from incident scene)
adjust-service (4) -- Adjust service in response to the incident
reroute (5) -- Reroute traffic around incident scene
 -- 6-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="5"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="verify"/>
                    <xs:enumeration value="resolve"/>
                    <xs:enumeration value="recall"/>
                    <xs:enumeration value="adjust-service"/>
                    <xs:enumeration value="reroute"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:IM-ResponseCommands"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element IM-ResponseAgencyID-->
    <xs:simpleType name="IM-ResponseAgencyID">
```

```
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="20"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element IM-PropertyDamage-->
    <xs:simpleType name="IM-PropertyDamage">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element IM-PostAccidentTest-->
    <xs:simpleType name="IM-PostAccidentTest">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element IM-PersonIdentifier-->
    <xs:simpleType name="IM-PersonIdentifier">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="60"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SP-LocationConversionType-->
    <xs:simpleType name="SP-LocationConversionType">
        <xs:annotation>
            <xs:appinfo>
addressPoint (1)
geoPoint (2)
geoLabelPoint (3)
geoOffsetPoint (4)
intersectionPoint (5)
intersectionOffsetPoint (6)
landmarkPoint (7)
milepostPoint (8)
nodePoint (9)
nodeOffsetPoint (10)
statePlanePoint (11)
roadLabelPoint (12)
geoDynamicPoint (13)
 -- 14-114 reserved
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="13"/>
```

```
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="addressPoint"/>
                <xs:enumeration value="geoPoint"/>
                <xs:enumeration value="geoLabelPoint"/>
                <xs:enumeration value="geoOffsetPoint"/>
                <xs:enumeration value="intersectionPoint"/>
                <xs:enumeration value="intersectionOffsetPoint"/>
                <xs:enumeration value="landmarkPoint"/>
                <xs:enumeration value="milepostPoint"/>
                <xs:enumeration value="nodePoint"/>
                <xs:enumeration value="nodeOffsetPoint"/>
                <xs:enumeration value="statePlanePoint"/>
                <xs:enumeration value="roadLabelPoint"/>
                <xs:enumeration value="geoDynamicPoint"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element IM-OtherVehicleInvolvedID-->
<xs:simpleType name="IM-OtherVehicleInvolvedID">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element IM-OperatorInjured-->
<xs:simpleType name="IM-OperatorInjured">
    <xs:annotation>
        <xs:appinfo>
no (0) -- No
yes (1) -- Yes
 -- 2-127 reserved
 -- 128-255 local content
</xs:appinfo>
    </xs:annotation>
    <xs:union>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="0"/>
                <xs:maxInclusive value="1"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="no"/>
                <xs:enumeration value="yes"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
```

```
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:IM-OperatorInjured"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element SCH-BlockSubset-->
<xs:simpleType name="SCH-BlockSubset">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element IM-AccidentCode-->
<xs:simpleType name="IM-AccidentCode">
    <xs:annotation>
        <xs:appinfo>
intersec-fm-lft (1) -- collision at intersection from left
intersec-fm-rt (2) -- collision at intersection from right
ptv-trn-rt-oth-veh-fm-ahd (3) -- ptv turning right hit by other vehicle from ahead
ptv-trn-rt-oth-veh-fm-lft (4) -- ptv turning right hit by other vehicle from left
ptv-trn-rt-oth-veh-fm-rt (5) -- ptv turning right hit by other vehicle from right
ptv-trn-rt-oth-veh-fm-rear (6) -- ptv turning right hit by other vehicle from rear
appr-oth-veh-makes-lft-trn (7) -- approaching vehicle makes left turn
ptv-trn-lft-oth-veh-fm-ahd (8) -- ptv turning left hit by other vehicle from ahead
ptv-trn-lft-oth-veh-fm-lft (9) -- ptv turning left hit by other vehicle from left
ptv-trn-lft-oth-veh-fm-rt (10) -- ptv turning left hit by other vehicle from right
ptv-trn-lft-oth-veh-fm-rear (11) -- ptv turning left hit by other vehicle from rear
oth-veh-on-lft-makes-rt-trn (12) -- vehicle on left turns right
ptv-and-oth-veh-trn-same-dir (13) -- ptv and other vehicle turning in same direction
ptv-hit-head-on (14) -- head on collision
sideswp-passing-oth-veh (15) -- sideswipe: passing other vehicle
sideswp-oth-veh-opposing (16) -- sideswipe: other vehicle from opposite direction
sideswp-oth-veh-passing (17) -- sideswipe: other vehicle passing ptv
oth-veh-chng-lanes (18) -- other vehicle changing lanes
oth-veh-prkng-or-lvng (19) -- other vehicle parking or leaving curb
oth-veh-prked (20) -- other vehicle parked
ptv-chng-lanes (21) -- ptv changing lanes
oth-veh-open-door (22) -- other vehicle open door
oth-veh-lvng-drvwy (23) -- other vehicle leaving alley or driveway
ptv-rearend-oth-veh (24) -- ptv rearends other vehicle
oth-veh-rearend-ptv-trfc (25) -- other vehicle rearends ptv in traffic
entr-bus-zone-oth-veh-prked (26) -- entering bus zone, other vehicle parked
entr-bus-zone-oth-veh-mving (27) -- entering bus zone, other vehicle moving
lving-bus-zone-oth-veh-prked (28) -- leaving bus zone, other vehicle parked
lving-bus-zone-oth-veh-mving (29) -- leaving bus zone, other vehicle moving
other-veh-rearend-ptv-bus-zone (30) -- ptv rearended in bus zone
with-mc-bike-etc (31) -- with motorcycle, bicycle, etc
ptv-bking (32) -- ptv backing
oth-veh-bking (33) -- other vehicle backing
oth-veh-sec-collision (34) -- other vehicles secondary collision
ptv-stpd-oth-veh-trning (35) -- ptv stopped- other vehicle turning
```

oth-veh-merg-fm-ramp (36) -- other vehicle merging from on ramp
ptv-merg-fm-ramp (37) -- ptv merging from on ramp
intersec-ptv-thru (38) -- at intersection ptv going thru
intersec-ptv-trning (39) -- at intersection ptv turning
ptv-entr-lv-bus-zone (40) -- ptv entering or leaving bus zone
reserved-future-41 (41) -- unused code for now
non-intersec (42) -- non-intersection
all-oth-ped (43) -- all other pedestrian collisions
fo-entr-bus-zone (44) -- fixed object entering bus zone
fo-bus-trning (45) -- fixed object ptv turning
fo-lving-bus-zone (46) -- fixed object leaving bus zone
fo-other (47) -- fixed object other
with-curb-or-obj-in-st (49) -- with curb or object in street
brding-at-curb-or-in-st (50) -- boarding at curb or in street
brding-caught-frnt-dr (51) -- boarding caught in front door
brding-caught-rear-dr (52) -- boarding caught in rear door
alting-frnt-dr (53) -- alighting front door
ptv-stped-onboard (54) -- ptv stopped, onboard
reserved-future-55 (55) -- unused code for now
alting-rear-dr (56) -- alighting rear door
reserved-future-57 (57) -- unused code for now
alting-caught-frnt-dr (58) -- alighting caught in front door
alting-caught-rear-dr (59) -- alighting caught in rear door
reserved-future-60 (60) -- unused code for now
fall-not-on-ptv (61) -- fall before boarding or after alighting
pass-fall-ptv-strt (62) -- passenger fall ptv starting
pass-fall-ptv-stp (63) -- passenger fall ptv stopping
pass-fall-ptv-trn (64) -- passenger fall ptv turning
pass-fall-ptv-norm (65) -- passenger fall ptv moving normally
pass-caught-strk-door (66) -- passenger caught or struck by door
reserved-future-67 (67) -- unused code for now
reserved-future-68 (68) -- unused code for now
reserved-future-69 (69) -- unused code for now
clothing (70) -- soiled or damaged clothing
injury-nonop (71) -- injury not due to operations
eviction (72)
rowdy-pass-inj-dmg (73) -- rowdy passenger causes injury or damage
reserved-future-74 (74) -- unused code for now
reserved-future-75 (75) -- unused code for now
brkn-wndow-nonvandal (76) -- broken window not caused by vandalism
pass-dispute (77) -- dispute between passengers
pass-mtrst-dispute (78) -- dispute with passenger or motorist
oth-nonop-inc (79) -- other nonoperating incident including witness reports
ptv-op-assault (80) -- ptv operator assaulted
ill-pass (81) -- ill passenger
misc-dispute-eviction (82) -- other miscellaneous dispute or evicition
trolley-pole-or-oh (83) -- trolley pole or overhead mishap
trfc-interference (84) -- interference with traffic
misc-op-incident (85) -- other miscellaneous operating incident
vandalism (86)
sideswp-ptv-bad-stp (87) -- sideswipe coach illegally parked or stopped

```
reserved-future-88 (88) -- unused code for now
fire-on-coach (89)
 -- 90-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
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                    <xs:maxInclusive value="89"/>
                </xs:restriction>
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            <xs:simpleType>
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                    <xs:enumeration value="intersec-fm-rt"/>
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                    <xs:enumeration value="ptv-trn-rt-oth-veh-fm-lft"/>
                    <xs:enumeration value="ptv-trn-rt-oth-veh-fm-rt"/>
                    <xs:enumeration value="ptv-trn-rt-oth-veh-fm-rear"/>
                    <xs:enumeration value="appr-oth-veh-makes-lft-trn"/>
                    <xs:enumeration value="ptv-trn-lft-oth-veh-fm-ahd"/>
                    <xs:enumeration value="ptv-trn-lft-oth-veh-fm-lft"/>
                    <xs:enumeration value="ptv-trn-lft-oth-veh-fm-rt"/>
                    <xs:enumeration value="ptv-trn-lft-oth-veh-fm-rear"/>
                    <xs:enumeration value="oth-veh-on-lft-makes-rt-trn"/>
                    <xs:enumeration value="ptv-and-oth-veh-trn-same-dir"/>
                    <xs:enumeration value="ptv-hit-head-on"/>
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                    <xs:enumeration value="sideswp-oth-veh-opposing"/>
                    <xs:enumeration value="sideswp-oth-veh-passing"/>
                    <xs:enumeration value="oth-veh-chng-lanes"/>
                    <xs:enumeration value="oth-veh-prkng-or-lvng"/>
                    <xs:enumeration value="oth-veh-prked"/>
                    <xs:enumeration value="ptv-chng-lanes"/>
                    <xs:enumeration value="oth-veh-open-door"/>
                    <xs:enumeration value="oth-veh-lvng-drvwy"/>
                    <xs:enumeration value="ptv-rearend-oth-veh"/>
                    <xs:enumeration value="oth-veh-rearend-ptv-trfc"/>
                    <xs:enumeration value="entr-bus-zone-oth-veh-prked"/>
                    <xs:enumeration value="entr-bus-zone-oth-veh-mving"/>
                    <xs:enumeration value="lving-bus-zone-oth-veh-prked"/>
                    <xs:enumeration value="lving-bus-zone-oth-veh-mving"/>
                    <xs:enumeration value="other-veh-rearend-ptv-bus-zone"/>
                    <xs:enumeration value="with-mc-bike-etc"/>
                    <xs:enumeration value="ptv-bking"/>
                    <xs:enumeration value="oth-veh-bking"/>
                    <xs:enumeration value="oth-veh-sec-collision"/>
                    <xs:enumeration value="ptv-stpd-oth-veh-trning"/>
                    <xs:enumeration value="oth-veh-merg-fm-ramp"/>
```

```
<xs:enumeration value="ptv-merg-fm-ramp"/>
<xs:enumeration value="intersec-ptv-thru"/>
<xs:enumeration value="intersec-ptv-trning"/>
<xs:enumeration value="ptv-entr-lv-bus-zone"/>
<xs:enumeration value="reserved-future-41"/>
<xs:enumeration value="non-intersec"/>
<xs:enumeration value="all-oth-ped"/>
<xs:enumeration value="fo-entr-bus-zone"/>
<xs:enumeration value="fo-bus-trning"/>
<xs:enumeration value="fo-lving-bus-zone"/>
<xs:enumeration value="fo-other"/>
<xs:enumeration value="with-curb-or-obj-in-st"/>
<xs:enumeration value="brding-at-curb-or-in-st"/>
<xs:enumeration value="brding-caught-frnt-dr"/>
<xs:enumeration value="brding-caught-rear-dr"/>
<xs:enumeration value="alting-frnt-dr"/>
<xs:enumeration value="ptv-stped-onboard"/>
<xs:enumeration value="reserved-future-55"/>
<xs:enumeration value="alting-rear-dr"/>
<xs:enumeration value="reserved-future-57"/>
<xs:enumeration value="alting-caught-frnt-dr"/>
<xs:enumeration value="alting-caught-rear-dr"/>
<xs:enumeration value="reserved-future-60"/>
<xs:enumeration value="fall-not-on-ptv"/>
<xs:enumeration value="pass-fall-ptv-strt"/>
<xs:enumeration value="pass-fall-ptv-stp"/>
<xs:enumeration value="pass-fall-ptv-trn"/>
<xs:enumeration value="pass-fall-ptv-norm"/>
<xs:enumeration value="pass-caught-strk-door"/>
<xs:enumeration value="reserved-future-67"/>
<xs:enumeration value="reserved-future-68"/>
<xs:enumeration value="reserved-future-69"/>
<xs:enumeration value="clothing"/>
<xs:enumeration value="injury-nonop"/>
<xs:enumeration value="eviction"/>
<xs:enumeration value="rowdy-pass-inj-dmg"/>
<xs:enumeration value="reserved-future-74"/>
<xs:enumeration value="reserved-future-75"/>
<xs:enumeration value="brkn-wndow-nonvandal"/>
<xs:enumeration value="pass-dispute"/>
<xs:enumeration value="pass-mtrst-dispute"/>
<xs:enumeration value="oth-nonop-inc"/>
<xs:enumeration value="ptv-op-assault"/>
<xs:enumeration value="ill-pass"/>
<xs:enumeration value="misc-dispute-eviction"/>
<xs:enumeration value="trolley-pole-or-oh"/>
<xs:enumeration value="trfc-interference"/>
<xs:enumeration value="misc-op-incident"/>
<xs:enumeration value="vandalism"/>
<xs:enumeration value="sideswp-ptv-bad-stp"/>
<xs:enumeration value="reserved-future-88"/>
```

```
                <xs:enumeration value="fire-on-coach"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:IM-AccidentCode"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element OB-DataLoadName-->
<xs:simpleType name="OB-DataLoadName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="17"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element OB-DataLoadID-->
<xs:simpleType name="OB-DataLoadID">
    <xs:restriction base="xs:unsignedByte"/>
</xs:simpleType>
<!-- Element IM-InjuryNature-->
<xs:simpleType name="IM-InjuryNature">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element IM-IncidentStatus-->
<xs:simpleType name="IM-IncidentStatus">
    <xs:annotation>
        <xs:appinfo>
reported-not-verified (1) -- Reported, not verified
verified-no-response-yet (2) -- Verified, no response applied
verified-response-enroute (3) -- Verified, response en route
verified-response-on-scene (4) -- Verified, response on scene
responding (5) -- Being responded to
cleared (6) -- Cleared
 -- 7-127 reserved
 -- 128-255 local content
</xs:appinfo>
    </xs:annotation>
    <xs:union>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="1"/>
                <xs:maxInclusive value="6"/>
```

```
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="reported-not-verified"/>
                <xs:enumeration value="verified-no-response-yet"/>
                <xs:enumeration value="verified-response-enroute"/>
                <xs:enumeration value="verified-response-on-scene"/>
                <xs:enumeration value="responding"/>
                <xs:enumeration value="cleared"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:IM-IncidentStatus"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element IM-IncidentID-->
<xs:simpleType name="IM-IncidentID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element CC-RouteAdherenceState-->
<xs:simpleType name="CC-RouteAdherenceState">
    <xs:restriction base="xs:unsignedShort"/>
</xs:simpleType>
<!-- Element IM-IncidentDescShort-->
<xs:simpleType name="IM-IncidentDescShort">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element IM-IncidentDescLong-->
<xs:simpleType name="IM-IncidentDescLong">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="50000"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element IM-HumanInjuryCount-->
<xs:simpleType name="IM-HumanInjuryCount">
    <xs:restriction base="xs:unsignedShort"/>
```

```
    </xs:simpleType>
    <!-- Element IM-HumanFatalityCount-->
    <xs:simpleType name="IM-HumanFatalityCount">
        <xs:restriction base="xs:unsignedShort"/>
    </xs:simpleType>
    <!-- Element IM-HomePhone-->
    <xs:simpleType name="IM-HomePhone">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="16"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element IM-EventIDSystem-->
    <xs:simpleType name="IM-EventIDSystem">
        <xs:restriction base="xs:unsignedShort"/>
    </xs:simpleType>
    <!-- Element SP-RoomIdentifier-->
    <xs:simpleType name="SP-RoomIdentifier">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SP-BuildingIdentifier-->
    <xs:simpleType name="SP-BuildingIdentifier">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element TSP-TMS-IntersectionID-->
    <xs:simpleType name="TSP-TMS-IntersectionID">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element TSP-ModemPhoneNum-->
    <xs:simpleType name="TSP-ModemPhoneNum">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="16"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element IM-EmployeeFunction-->
    <xs:simpleType name="IM-EmployeeFunction">
        <xs:annotation>
            <xs:appinfo>
command (1) -- command
safety (2) -- safety
information (3) -- information
```

```
liaison (4) -- liaison
operations (5) -- operations
staging (6) -- staging
branch (7) -- branch
division (8) -- division
strike-team (9) -- strike team
company (10) -- company
task-force (11) -- task force
group (12) -- group
planning (13) -- planning
resource-unit (14) -- resource unit
situation-unit (15) -- situation unit
documentation-unit (16) -- documentation unit
demobilization (17) -- demobilization unit
technical-specialist (18) -- technical specialist
logistics (19) -- logistics
service-branch (20) -- service branch
communications (21) -- communications unit
medical-unit (22) -- medical unit
rehabilitation (23) -- rehabilitation
food-unit (24) -- food unit
support-branch (25) -- support branch
supply-unit (26) -- supply unit
facilities-unit (27) -- facilities unit
ground-support-unit (28) -- ground support unit
administration (29) -- finance/administration
time-unit (30) -- time unit
procurement-unit (31) -- procurement unit
claims-unit (32) -- compensations claims unit
cost-unit (33) -- cost unit
transit-ft-operator (34) -- Transit: full time operator
transit-pt-operator (35) -- Transit: part time operator
transit-conductor (36) -- Transit: conductor
transit-engineer (37) -- Transit: engineer
transit-maintenance (38) -- Transit: maintenance
transit-supervisor (39) -- Transit: supervisor/ manager
transit-revenue-collector (40) -- Transit: revenue collector
transit-dispatcher (41) -- Transit: dispatcher
 -- 42-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="41"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
```

```
            <xs:enumeration value="command"/>
            <xs:enumeration value="safety"/>
            <xs:enumeration value="information"/>
            <xs:enumeration value="liaison"/>
            <xs:enumeration value="operations"/>
            <xs:enumeration value="staging"/>
            <xs:enumeration value="branch"/>
            <xs:enumeration value="division"/>
            <xs:enumeration value="strike-team"/>
            <xs:enumeration value="company"/>
            <xs:enumeration value="task-force"/>
            <xs:enumeration value="group"/>
            <xs:enumeration value="planning"/>
            <xs:enumeration value="resource-unit"/>
            <xs:enumeration value="situation-unit"/>
            <xs:enumeration value="documentation-unit"/>
            <xs:enumeration value="demobilization"/>
            <xs:enumeration value="technical-specialist"/>
            <xs:enumeration value="logistics"/>
            <xs:enumeration value="service-branch"/>
            <xs:enumeration value="communications"/>
            <xs:enumeration value="medical-unit"/>
            <xs:enumeration value="rehabilitation"/>
            <xs:enumeration value="food-unit"/>
            <xs:enumeration value="support-branch"/>
            <xs:enumeration value="supply-unit"/>
            <xs:enumeration value="facilities-unit"/>
            <xs:enumeration value="ground-support-unit"/>
            <xs:enumeration value="administration"/>
            <xs:enumeration value="time-unit"/>
            <xs:enumeration value="procurement-unit"/>
            <xs:enumeration value="claims-unit"/>
            <xs:enumeration value="cost-unit"/>
            <xs:enumeration value="transit-ft-operator"/>
            <xs:enumeration value="transit-pt-operator"/>
            <xs:enumeration value="transit-conductor"/>
            <xs:enumeration value="transit-engineer"/>
            <xs:enumeration value="transit-maintenance"/>
            <xs:enumeration value="transit-supervisor"/>
            <xs:enumeration value="transit-revenue-collector"/>
            <xs:enumeration value="transit-dispatcher"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType>
        <xs:restriction base="xs:unsignedInt">
            <xs:minInclusive value="128"/>
            <xs:maxInclusive value="255"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType>
        <xs:restriction base="local:IM-EmployeeFunction"/>
```

```
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element IM-DispatcherID-->
    <xs:simpleType name="IM-DispatcherID">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element SP-IndoorGridIdentifier-->
    <xs:simpleType name="SP-IndoorGridIdentifier">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SP-InteriorFeatureType-->
    <xs:simpleType name="SP-InteriorFeatureType">
        <xs:annotation>
            <xs:appinfo>
stairway (1)
escalator (2)
ramp (3)
elevator (4)
restaurant (5)
concession (6)
vending-machine (7)
ticket-vending-machine (8)
ticket-window (9)
info-booth (10)
kiosk (11)
door (12)
window (13)
platform (14)
customer-info-system (15)
fountain (16)
stoppoint (17)
entrance (18)
emergency-exit (19)
hallway (20)
concourse (21)
office (22)
waiting-room (23)
art-sculpture (24)
art-mosaic (25)
art-other (26)
pay-phones (27)
 -- 28-128 reserved
 -- 129-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
```

```
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="1"/>
                <xs:maxInclusive value="27"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="stairway"/>
                <xs:enumeration value="escalator"/>
                <xs:enumeration value="ramp"/>
                <xs:enumeration value="elevator"/>
                <xs:enumeration value="restaurant"/>
                <xs:enumeration value="concession"/>
                <xs:enumeration value="vending-machine"/>
                <xs:enumeration value="ticket-vending-machine"/>
                <xs:enumeration value="ticket-window"/>
                <xs:enumeration value="info-booth"/>
                <xs:enumeration value="kiosk"/>
                <xs:enumeration value="door"/>
                <xs:enumeration value="window"/>
                <xs:enumeration value="platform"/>
                <xs:enumeration value="customer-info-system"/>
                <xs:enumeration value="fountain"/>
                <xs:enumeration value="stoppoint"/>
                <xs:enumeration value="entrance"/>
                <xs:enumeration value="emergency-exit"/>
                <xs:enumeration value="hallway"/>
                <xs:enumeration value="concourse"/>
                <xs:enumeration value="office"/>
                <xs:enumeration value="waiting-room"/>
                <xs:enumeration value="art-sculpture"/>
                <xs:enumeration value="art-mosaic"/>
                <xs:enumeration value="art-other"/>
                <xs:enumeration value="pay-phones"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="129"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:SP-InteriorFeatureType"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element PI-ParkingRates-->
<xs:simpleType name="PI-ParkingRates">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
```

```
            <xs:maxLength value="50000"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SP-GeoTraceResponseType-->
    <xs:simpleType name="SP-GeoTraceResponseType">
        <xs:annotation>
            <xs:appinfo>
links (1)
tracepoints (2)
timepoints (3)
stoppoints (4)
driving-directions (5)
walking-directions (6)
 -- 7-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="6"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="links"/>
                    <xs:enumeration value="tracepoints"/>
                    <xs:enumeration value="timepoints"/>
                    <xs:enumeration value="stoppoints"/>
                    <xs:enumeration value="driving-directions"/>
                    <xs:enumeration value="walking-directions"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:SP-GeoTraceResponseType"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element IM-DetourType-->
    <xs:simpleType name="IM-DetourType">
        <xs:annotation>
            <xs:appinfo>
ad-hoc (1) -- response to an incident, a detour is defined in real time as the need arises
canned (2) -- response to an incident, a pre-specified detour is used
```

```
short-term (3) -- need for detour known in advance, detour is incorporated into operator/vehicle assignments,
itinerary planning
long-term (4) -- advance to cover an entire need for detour known in schedule/pick period, detour is incorporated
in the schedule and pick
 -- 5-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="4"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="ad-hoc"/>
                    <xs:enumeration value="canned"/>
                    <xs:enumeration value="short-term"/>
                    <xs:enumeration value="long-term"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:IM-DetourType"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element IM-CurrentStatus-->
    <xs:simpleType name="IM-CurrentStatus">
        <xs:annotation>
            <xs:appinfo>
available (1)
responding (2)
returning (3)
maintenance (4)
unavailable (5)
otherIncident (6)
 -- 127-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
```

```
                <xs:minInclusive value="1"/>
                <xs:maxInclusive value="6"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="available"/>
                <xs:enumeration value="responding"/>
                <xs:enumeration value="returning"/>
                <xs:enumeration value="maintenance"/>
                <xs:enumeration value="unavailable"/>
                <xs:enumeration value="otherIncident"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:IM-CurrentStatus"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element IM-CareFacilityName-->
<xs:simpleType name="IM-CareFacilityName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="20"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element IM-Age-->
<xs:simpleType name="IM-Age">
    <xs:restriction base="xs:unsignedByte"/>
</xs:simpleType>
<!-- Element PI-WalkingDirections-->
<xs:simpleType name="PI-WalkingDirections">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="50000"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element PI-TripTotalTransfers-->
<xs:simpleType name="PI-TripTotalTransfers">
    <xs:restriction base="xs:unsignedByte"/>
</xs:simpleType>
<!-- Element PI-TripTotalTime-->
<xs:simpleType name="PI-TripTotalTime">
    <xs:annotation>
        <xs:appinfo>Can be specified as a integer number or as xs:duration</xs:appinfo>
```

```
    </xs:annotation>
    <xs:union memberTypes="xs:unsignedInt xs:duration"/>
</xs:simpleType>
<!-- Element PI-TripTotalCost-->
<xs:simpleType name="PI-TripTotalCost">
    <xs:restriction base="xs:unsignedShort"/>
</xs:simpleType>
<!-- Element PI-TripOptionID-->
<xs:simpleType name="PI-TripOptionID">
    <xs:restriction base="xs:unsignedLong"/>
</xs:simpleType>
<!-- Element PI-TravelerTriggerEvent-->
<xs:simpleType name="PI-TravelerTriggerEvent">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element PI-TravelerPhoneExtension-->
<xs:simpleType name="PI-TravelerPhoneExtension">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="16"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element PI-TravelerPhone-->
<xs:simpleType name="PI-TravelerPhone">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="16"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element PI-TravelerPager-->
<xs:simpleType name="PI-TravelerPager">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="16"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element PI-TravelerMailingMatl-->
<xs:simpleType name="PI-TravelerMailingMatl">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="2047"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element PI-TravelerLastName-->
<xs:simpleType name="PI-TravelerLastName">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="20"/>
```

```
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-TravelerID-->
    <xs:simpleType name="PI-TravelerID">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-TravelerFirstName-->
    <xs:simpleType name="PI-TravelerFirstName">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="20"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-TravelerFax-->
    <xs:simpleType name="PI-TravelerFax">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="16"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-TravelerEmail-->
    <xs:simpleType name="PI-TravelerEmail">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="2047"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-TravelerContactMode-->
    <xs:simpleType name="PI-TravelerContactMode">
        <xs:annotation>
            <xs:appinfo>
phone (1)
pager (2)
regularMail (3)
e-mail (4)
fax (5)
 -- 6-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="5"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
```

```
                <xs:restriction base="xs:string">
                    <xs:enumeration value="phone"/>
                    <xs:enumeration value="pager"/>
                    <xs:enumeration value="regularMail"/>
                    <xs:enumeration value="e-mail"/>
                    <xs:enumeration value="fax"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:PI-TravelerContactMode"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element PI-TravelerCallBack-->
    <xs:simpleType name="PI-TravelerCallBack">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="16"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-StaticSignMessage-->
    <xs:simpleType name="PI-StaticSignMessage">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="50000"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-GenericName-->
    <xs:simpleType name="CPT-GenericName">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="40"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element CPT-FeatureType-->
    <xs:simpleType name="CPT-FeatureType">
        <xs:annotation>
            <xs:appinfo>
street (1)
highway (2)
intersection (3)
ramp (4)
transit-sign (5)
non-transit-sign (6)
ptv-garage (7)
```

```
stoppoint (8)
timepoint (9)
shelter (10)
tracks (11) -- rail e.g. commuter rail, light rail
parking-garage (12)
park-and-ride (13)
pattern (14)
pattern-segment (15)
route (16)
incident (17)
landmark (18)
origin (19)
destination (20)
fare-zone (21)
water (22) -- rivers, lakes, streams etc.
parking-lot (23)
transit-facility (24) -- of any kind
fire-hydrant (25)
city (26)
county (27) -- or borough
state (28)
town (29)
employee (30)
operator-base (31)
operator (32)
org-unit (33)
transfer-cluster (34)
vehicle (35)
fare-policy (36)
amenity (38)
announcement (39)
service-bulletin (40)
geo-zone (41)
traveler (42)
block (43) -- vehicle assignment
note (44) -- scheduling note
run (45)
trip (46) -- scheduled trip
 -- 47-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="46"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
```

```
        <xs:enumeration value="street"/>
        <xs:enumeration value="highway"/>
        <xs:enumeration value="intersection"/>
        <xs:enumeration value="ramp"/>
        <xs:enumeration value="transit-sign"/>
        <xs:enumeration value="non-transit-sign"/>
        <xs:enumeration value="ptv-garage"/>
        <xs:enumeration value="stoppoint"/>
        <xs:enumeration value="timepoint"/>
        <xs:enumeration value="shelter"/>
        <xs:enumeration value="tracks"/>
        <xs:enumeration value="parking-garage"/>
        <xs:enumeration value="park-and-ride"/>
        <xs:enumeration value="pattern"/>
        <xs:enumeration value="pattern-segment"/>
        <xs:enumeration value="route"/>
        <xs:enumeration value="incident"/>
        <xs:enumeration value="landmark"/>
        <xs:enumeration value="origin"/>
        <xs:enumeration value="destination"/>
        <xs:enumeration value="fare-zone"/>
        <xs:enumeration value="water"/>
        <xs:enumeration value="parking-lot"/>
        <xs:enumeration value="transit-facility"/>
        <xs:enumeration value="fire-hydrant"/>
        <xs:enumeration value="city"/>
        <xs:enumeration value="county"/>
        <xs:enumeration value="state"/>
        <xs:enumeration value="town"/>
        <xs:enumeration value="employee"/>
        <xs:enumeration value="operator-base"/>
        <xs:enumeration value="operator"/>
        <xs:enumeration value="org-unit"/>
        <xs:enumeration value="transfer-cluster"/>
        <xs:enumeration value="vehicle"/>
        <xs:enumeration value="fare-policy"/>
        <xs:enumeration value="amenity"/>
        <xs:enumeration value="announcement"/>
        <xs:enumeration value="service-bulletin"/>
        <xs:enumeration value="geo-zone"/>
        <xs:enumeration value="traveler"/>
        <xs:enumeration value="block"/>
        <xs:enumeration value="note"/>
        <xs:enumeration value="run"/>
        <xs:enumeration value="trip"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType>
    <xs:restriction base="xs:unsignedInt">
        <xs:minInclusive value="128"/>
        <xs:maxInclusive value="255"/>
```

```
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:CPT-FeatureType"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element PI-StaticSignDescription-->
    <xs:simpleType name="PI-StaticSignDescription">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="50000"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-SignType-->
    <xs:simpleType name="PI-SignType">
        <xs:annotation>
            <xs:appinfo>
dynamic (1)
notDynamic (2)
other (3)
 -- 4-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="3"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="dynamic"/>
                    <xs:enumeration value="notDynamic"/>
                    <xs:enumeration value="other"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:PI-SignType"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element PI-SignID-->
```

```
    <xs:simpleType name="PI-SignID">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-ParkingVehicleClass-->
    <xs:simpleType name="PI-ParkingVehicleClass">
        <xs:annotation>
            <xs:appinfo>
all (1)
compact (2)
standard (3)
van (4)
oversized (5)
truck (6)
bus (7)
 -- 8-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="7"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="all"/>
                    <xs:enumeration value="compact"/>
                    <xs:enumeration value="standard"/>
                    <xs:enumeration value="van"/>
                    <xs:enumeration value="oversized"/>
                    <xs:enumeration value="truck"/>
                    <xs:enumeration value="bus"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:PI-ParkingVehicleClass"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element PI-ParkingType-->
```

```
    <xs:simpleType name="PI-ParkingType">
        <xs:annotation>
            <xs:appinfo>
open (1) -- Open lot
garage (2)
permit (3)
contract (4)
free (5)
pay (6)
other (7)
 -- 8-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="7"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="open"/>
                    <xs:enumeration value="garage"/>
                    <xs:enumeration value="permit"/>
                    <xs:enumeration value="contract"/>
                    <xs:enumeration value="free"/>
                    <xs:enumeration value="pay"/>
                    <xs:enumeration value="other"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:PI-ParkingType"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element PI-ParkingSpacesTotal-->
    <xs:simpleType name="PI-ParkingSpacesTotal">
        <xs:restriction base="xs:unsignedShort"/>
    </xs:simpleType>
    <!-- Element PI-ParkingOwnerName-->
    <xs:simpleType name="PI-ParkingOwnerName">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
```

```
            <xs:maxLength value="60"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-ParkingFacPhone-->
    <xs:simpleType name="PI-ParkingFacPhone">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="16"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-ParkingFacID-->
    <xs:simpleType name="PI-ParkingFacID">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element PI-ParkingEntranceID-->
    <xs:simpleType name="PI-ParkingEntranceID">
        <xs:restriction base="xs:unsignedLong"/>
    </xs:simpleType>
    <!-- Element PI-ParkingAvailability-->
    <xs:simpleType name="PI-ParkingAvailability">
        <xs:restriction base="xs:unsignedShort"/>
    </xs:simpleType>
    <!-- Element SP-SymbolLabel-->
    <xs:simpleType name="SP-SymbolLabel">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="20"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SP-NoDimDist-->
    <xs:simpleType name="SP-NoDimDist">
        <xs:restriction base="xs:long"/>
    </xs:simpleType>
    <!-- Element SP-NoDimCoord-->
    <xs:simpleType name="SP-NoDimCoord">
        <xs:restriction base="xs:long"/>
    </xs:simpleType>
    <!-- Element CPT-Color-->
    <xs:simpleType name="CPT-Color">
        <xs:annotation>
            <xs:appinfo>
white (1)
black (2)
red (3)
blue (4)
green (5)
violet (6)
purple (7)
gray (8)
pink (9)
yellow (10)
```

```
orange (11)
brown (12)
silver (13)
lime (14)
gold (15)
light-red (16)
light-blue (17)
light-green (18)
light-violet (19)
light-purple (20)
light-gray (21)
light-pink (22)
light-yellow (23)
light-orange (24)
light-brown (25)
dark-red (27)
dark-blue (28)
dark-green (29)
dark-violet (30)
dark-purple (31)
dark-gray (32)
dark-pink (33)
dark-yellow (34)
dark-orange (35)
dark-brown (36)
 -- 37-100 reserved
 -- 120-130 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="36"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="white"/>
                    <xs:enumeration value="black"/>
                    <xs:enumeration value="red"/>
                    <xs:enumeration value="blue"/>
                    <xs:enumeration value="green"/>
                    <xs:enumeration value="violet"/>
                    <xs:enumeration value="purple"/>
                    <xs:enumeration value="gray"/>
                    <xs:enumeration value="pink"/>
                    <xs:enumeration value="yellow"/>
                    <xs:enumeration value="orange"/>
                    <xs:enumeration value="brown"/>
                    <xs:enumeration value="silver"/>
```

```
                <xs:enumeration value="lime"/>
                <xs:enumeration value="gold"/>
                <xs:enumeration value="light-red"/>
                <xs:enumeration value="light-blue"/>
                <xs:enumeration value="light-green"/>
                <xs:enumeration value="light-violet"/>
                <xs:enumeration value="light-purple"/>
                <xs:enumeration value="light-gray"/>
                <xs:enumeration value="light-pink"/>
                <xs:enumeration value="light-yellow"/>
                <xs:enumeration value="light-orange"/>
                <xs:enumeration value="light-brown"/>
                <xs:enumeration value="dark-red"/>
                <xs:enumeration value="dark-blue"/>
                <xs:enumeration value="dark-green"/>
                <xs:enumeration value="dark-violet"/>
                <xs:enumeration value="dark-purple"/>
                <xs:enumeration value="dark-gray"/>
                <xs:enumeration value="dark-pink"/>
                <xs:enumeration value="dark-yellow"/>
                <xs:enumeration value="dark-orange"/>
                <xs:enumeration value="dark-brown"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
                <xs:minInclusive value="120"/>
                <xs:maxInclusive value="130"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:CPT-Color"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element SP-FeatureID-->
<xs:simpleType name="SP-FeatureID">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="30"/>
    </xs:restriction>
</xs:simpleType>
<!-- Element PI-OffSchedule-->
<xs:simpleType name="PI-OffSchedule">
    <xs:annotation>
        <xs:appinfo>Can be specified as a integer number or as xs:duration</xs:appinfo>
    </xs:annotation>
    <xs:union memberTypes="xs:unsignedInt xs:duration"/>
</xs:simpleType>
<!-- Element PI-NextArrivalCountdown-->
<xs:simpleType name="PI-NextArrivalCountdown">
```

```
        <xs:annotation>
            <xs:appinfo>Can be specified as a integer number or as xs:duration</xs:appinfo>
        </xs:annotation>
        <xs:union memberTypes="xs:unsignedInt xs:duration"/>
    </xs:simpleType>
    <!-- Element PI-MaxCost-->
    <xs:simpleType name="PI-MaxCost">
        <xs:restriction base="xs:unsignedShort"/>
    </xs:simpleType>
    <!-- Element PI-MarkerType-->
    <xs:simpleType name="PI-MarkerType">
        <xs:annotation>
            <xs:appinfo>
posted (1) -- Posted Sign
shelter (2) -- at Station or Shelter
post (3) -- concrete post
 -- 4-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="3"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="posted"/>
                    <xs:enumeration value="shelter"/>
                    <xs:enumeration value="post"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:PI-MarkerType"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element CPT-Time-->
    <xs:simpleType name="CPT-Time">
        <xs:annotation>
            <xs:appinfo>Can be specified as a integer number or as xs:time</xs:appinfo>
        </xs:annotation>
        <xs:union memberTypes="xs:unsignedInt xs:time"/>
```

```
    </xs:simpleType>
    <!-- Element CPT-Date-->
    <xs:simpleType name="CPT-Date">
        <xs:annotation>
            <xs:appinfo>Can be specified as a integer number or as xs:date</xs:appinfo>
        </xs:annotation>
        <xs:union memberTypes="xs:unsignedInt xs:date"/>
    </xs:simpleType>
    <!-- Element SCH-Time-->
    <xs:simpleType name="SCH-Time">
        <xs:restriction base="xs:long"/>
    </xs:simpleType>
    <!-- Element PI-InformationType-->
    <xs:simpleType name="PI-InformationType">
        <xs:annotation>
            <xs:appinfo>
staticSign (1) -- static sign with station stop ID/name
routes (2)
schedules (3)
fares (4)
system-map (5)
area-map (6)
timetables (7) -- printed and removable
real-time-information (8)
attended (9) -- agent or attended phone for information
 -- 10-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="9"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="staticSign"/>
                    <xs:enumeration value="routes"/>
                    <xs:enumeration value="schedules"/>
                    <xs:enumeration value="fares"/>
                    <xs:enumeration value="system-map"/>
                    <xs:enumeration value="area-map"/>
                    <xs:enumeration value="timetables"/>
                    <xs:enumeration value="real-time-information"/>
                    <xs:enumeration value="attended"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
```

```
                <xs:minInclusive value="128"/>
                <xs:maxInclusive value="255"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
            <xs:restriction base="local:PI-InformationType"/>
        </xs:simpleType>
    </xs:union>
</xs:simpleType>
<!-- Element PI-EstimatedArrivalRange-->
<xs:simpleType name="PI-EstimatedArrivalRange">
    <xs:annotation>
        <xs:appinfo>
onTime (1) -- On-time
early (2) -- Early
lateOneMin (3) -- 0-1 minutes late
lateOneTwoMin (4) -- 1-2 minutes late
lateTwoThreeMin (5) -- 2-3 minutes late
lateTwoFourMin (6) -- 2-4 minutes late
lateThreeFourMin (7) -- 3-4 minutes late
lateThreeFiveMin (8) -- 3-5 minutes late
lateFourFiveMin (9) -- 4-5 minutes late
lateTwoFiveMin (10) -- 2-5 minutes late
lateFiveSevenMin (11) -- 5-7 minutes late
lateSevenTenMin (12) -- 7-10 minutes late
lateFiveTenMin (13) -- 5-10 minutes late
lateTenFifteenMin (14) -- 10-15 minutes late
lateFifteenTwentyMin (15) -- 15-20 minutes late
lateMoreThanTwentyMin (16) -- More than 20 minutes late
earlyOneMin (17) -- 0-1 minutes early
earlyOneTwoMin (18) -- 1-2 minutes early
earlyTwoThreeMin (19) -- 2-3 minutes early
earlyTwoFourMin (20) -- 2-4 minutes early
earlyThreeFourMin (21) -- 3-4 minutes early
earlyThreeFiveMin (22) -- 3-5 minutes early
earlyFourFiveMin (23) -- 4-5 minutes early
earlyTwoFiveMin (24) -- 2-5 minutes early
earlyFiveSevenMin (25) -- 5-7 minutes early
earlySevenTenMin (26) -- 7-10 minutes early
earlyFiveTenMin (27) -- 5-10 minutes early
earlyTenFifteenMin (28) -- 10-15 minutes early
earlyFifteenTwentyMin (29) -- 15-20 minutes early
earlyMoreThanTwentyMin (30)
 -- 31-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
```

```
            <xs:maxInclusive value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:enumeration value="onTime"/>
            <xs:enumeration value="early"/>
            <xs:enumeration value="lateOneMin"/>
            <xs:enumeration value="lateOneTwoMin"/>
            <xs:enumeration value="lateTwoThreeMin"/>
            <xs:enumeration value="lateTwoFourMin"/>
            <xs:enumeration value="lateThreeFourMin"/>
            <xs:enumeration value="lateThreeFiveMin"/>
            <xs:enumeration value="lateFourFiveMin"/>
            <xs:enumeration value="lateTwoFiveMin"/>
            <xs:enumeration value="lateFiveSevenMin"/>
            <xs:enumeration value="lateSevenTenMin"/>
            <xs:enumeration value="lateFiveTenMin"/>
            <xs:enumeration value="lateTenFifteenMin"/>
            <xs:enumeration value="lateFifteenTwentyMin"/>
            <xs:enumeration value="lateMoreThanTwentyMin"/>
            <xs:enumeration value="earlyOneMin"/>
            <xs:enumeration value="earlyOneTwoMin"/>
            <xs:enumeration value="earlyTwoThreeMin"/>
            <xs:enumeration value="earlyTwoFourMin"/>
            <xs:enumeration value="earlyThreeFourMin"/>
            <xs:enumeration value="earlyThreeFiveMin"/>
            <xs:enumeration value="earlyFourFiveMin"/>
            <xs:enumeration value="earlyTwoFiveMin"/>
            <xs:enumeration value="earlyFiveSevenMin"/>
            <xs:enumeration value="earlySevenTenMin"/>
            <xs:enumeration value="earlyFiveTenMin"/>
            <xs:enumeration value="earlyTenFifteenMin"/>
            <xs:enumeration value="earlyFifteenTwentyMin"/>
            <xs:enumeration value="earlyMoreThanTwentyMin"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType>
        <xs:restriction base="xs:unsignedInt">
            <xs:minInclusive value="128"/>
            <xs:maxInclusive value="255"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType>
        <xs:restriction base="local:PI-EstimatedArrivalRange"/>
    </xs:simpleType>
  </xs:union>
</xs:simpleType>
<!-- Element PI-DMSMessage-->
<xs:simpleType name="PI-DMSMessage">
  <xs:restriction base="xs:string">
```

```
            <xs:minLength value="1"/>
            <xs:maxLength value="60"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SP-OneWay-->
    <xs:simpleType name="SP-OneWay">
        <xs:annotation>
            <xs:appinfo>
one-to-two (1) -- from node 1 to node 2
two-to-one (2) -- from node 2 to node 1
bidirectional (3) -- not really one-way at all
clockwise (4) -- useful for traffic circles
counterclockwise (5) -- useful for traffic circles
 -- 6-100 reserved
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="5"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="one-to-two"/>
                    <xs:enumeration value="two-to-one"/>
                    <xs:enumeration value="bidirectional"/>
                    <xs:enumeration value="clockwise"/>
                    <xs:enumeration value="counterclockwise"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element SP-FeatureName-->
    <xs:simpleType name="SP-FeatureName">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element SP-FeatureLabel-->
    <xs:simpleType name="SP-FeatureLabel">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-AmenityStatus-->
    <xs:simpleType name="PI-AmenityStatus">
        <xs:annotation>
```

```
            <xs:appinfo>
outOfOrder (1)
operational (2)
 -- 3-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="2"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="outOfOrder"/>
                    <xs:enumeration value="operational"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:PI-AmenityStatus"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element PI-AmenityName-->
    <xs:simpleType name="PI-AmenityName">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-AmenityID-->
    <xs:simpleType name="PI-AmenityID">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
            <xs:maxLength value="30"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- Element PI-ADANeed-->
    <xs:simpleType name="PI-ADANeed">
        <xs:annotation>
            <xs:appinfo>
noADANeed (1)
mobilityAssistanceRequired (2)
```

```
visualAssistanceRequired (3)
audioAssistanceRequired (4)
otherAssistanceRequired (5)
visual-AudioAssistanceRequired (6)
visual-MobilityAssistanceRequired (7)
audio-MobilityAssistanceRequired (8)
visual-Audio-MobilityAssistanceRequired (9)
 -- 10-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="9"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="noADANeed"/>
                    <xs:enumeration value="mobilityAssistanceRequired"/>
                    <xs:enumeration value="visualAssistanceRequired"/>
                    <xs:enumeration value="audioAssistanceRequired"/>
                    <xs:enumeration value="otherAssistanceRequired"/>
                    <xs:enumeration value="visual-AudioAssistanceRequired"/>
                    <xs:enumeration value="visual-MobilityAssistanceRequired"/>
                    <xs:enumeration value="audio-MobilityAssistanceRequired"/>
                    <xs:enumeration value="visual-Audio-MobilityAssistanceRequired"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:PI-ADANeed"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- Element PI-ADAAccess-->
    <xs:simpleType name="PI-ADAAccess">
        <xs:annotation>
            <xs:appinfo>
notCompliant (1)
fullyCompliant (2)
mobilityChallengedAccess (3)
visuallyImpairedAccess (4)
hearingImpairedAccess (5)
```

```
mobility-VisuallyImpairedAccess (6)
visually-HearingImpairedAccess (7)
mobility-MobilityImpairedAccess (8)
 -- 9-127 reserved
 -- 128-255 local content
</xs:appinfo>
        </xs:annotation>
        <xs:union>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="1"/>
                    <xs:maxInclusive value="8"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="notCompliant"/>
                    <xs:enumeration value="fullyCompliant"/>
                    <xs:enumeration value="mobilityChallengedAccess"/>
                    <xs:enumeration value="visuallyImpairedAccess"/>
                    <xs:enumeration value="hearingImpairedAccess"/>
                    <xs:enumeration value="mobility-VisuallyImpairedAccess"/>
                    <xs:enumeration value="visually-HearingImpairedAccess"/>
                    <xs:enumeration value="mobility-MobilityImpairedAccess"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="xs:unsignedInt">
                    <xs:minInclusive value="128"/>
                    <xs:maxInclusive value="255"/>
                </xs:restriction>
            </xs:simpleType>
            <xs:simpleType>
                <xs:restriction base="local:PI-ADAAccess"/>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
    <!-- end definition of TCIP messages, frames, and data elements -->
</xs:schema>
```