**Change Summary - DUIS XML Schema v5.1**

<?xml version="1.0" encoding="UTF-8"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:ds="http://www.w3.org/2000/09/xmldsig#"

xmlns:ra="http://www.dccinterface.co.uk/ResponseAndAlert"

xmlns:sr="http://www.dccinterface.co.uk/ServiceUserGateway"

targetNamespace="http://www.dccinterface.co.uk/ServiceUserGateway"

elementFormDefault="qualified">

<xs:import namespace="http://www.w3.org/2000/09/xmldsig#"

schemaLocation="xmldsig-core-schema.xsd"/>

<xs:import namespace="http://www.dccinterface.co.uk/ResponseAndAlert"

schemaLocation="MMC Schema V5.1.xsd"/>

<!--

XML Filename - DUIS Schema V5.1a

DUIS XML Schema Version - Request - 5.1

DUIS XML Schema Version - Response - 5.1

Aligned with GBCS version - 4.1

Date - September 2021

Minor revision of this XML schema - 71.6

-->

<!-- Common Types -->

<xs:element name="Request" type="sr:Request"/>

<xs:element name="Response" type="sr:Response"/>

<xs:element name="SMETS1SignedResponse" type="sr:SMETS1SignedResponse"/>

<xs:element name="S1SPAlert" type="sr:S1SPAlert"/>

<xs:complexType name="SMETS1ResponseMessage">

<xs:sequence>

<xs:element name="ServiceReference" type="sr:ServiceReference" minOccurs="0"/>

<xs:element maxOccurs="1" minOccurs="0" name="ServiceReferenceVariant"

type="sr:ServiceReferenceVariant"/>

<xs:element minOccurs="0" name="DSPScheduleID" type="sr:scheduleID"/>

<xs:element name="ThrottledAlertSequenceId" type="xs:unsignedInt" minOccurs="0"

maxOccurs="1"/>

<xs:element name="ThrottledAlertCount" type="xs:unsignedInt" minOccurs="0" maxOccurs="1"/>

<xs:element minOccurs="1" maxOccurs="1" ref="sr:SMETS1SignedResponse"/>

</xs:sequence>

</xs:complexType>

<xs:simpleType name="range\_1\_3">

<xs:restriction base="xs:positiveInteger">

<xs:minInclusive value="1"/>

<xs:maxInclusive value="3"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="range\_1\_4">

<xs:restriction base="xs:positiveInteger">

<xs:minInclusive value="1"/>

<xs:maxInclusive value="4"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="range\_1\_5">

<xs:restriction base="xs:positiveInteger">

<xs:minInclusive value="1"/>

<xs:maxInclusive value="5"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="range\_1\_7">

<xs:restriction base="xs:positiveInteger">

<xs:minInclusive value="1"/>

<xs:maxInclusive value="7"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="range\_1\_8">

<xs:restriction base="xs:positiveInteger">

<xs:minInclusive value="1"/>

<xs:maxInclusive value="8"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="range\_1\_20">

<xs:restriction base="xs:positiveInteger">

<xs:minInclusive value="1"/>

<xs:maxInclusive value="20"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="range\_1\_48">

<xs:restriction base="xs:positiveInteger">

<xs:minInclusive value="1"/>

<xs:maxInclusive value="48"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="FirmwareVersion">

<xs:restriction base="xs:string">

<xs:maxLength value="8"/>

<xs:minLength value="1"/>

</xs:restriction>

</xs:simpleType>

<!-- maximum floor number in security use cases -->

<xs:simpleType name="floorSequenceNumber">

<xs:restriction base="xs:nonNegativeInteger">

<xs:maxInclusive value="9223372036854775807"/>

</xs:restriction>

</xs:simpleType>

<!-- maximum number of schedule IDs for a device -->

<xs:simpleType name="scheduleID">

<xs:restriction base="xs:nonNegativeInteger">

<xs:maxInclusive value="1000000000000"/>

</xs:restriction>

</xs:simpleType>

<!-- maximum days when offsetting a command -->

<xs:simpleType name="logPeriodOffset">

<xs:restriction base="xs:nonPositiveInteger">

<xs:minInclusive value="-400"/>

</xs:restriction>

</xs:simpleType>

<!-- tolerance period for setting clock in seconds, set as 1 day -->

<xs:simpleType name="tolerancePeriod">

<xs:restriction base="xs:int">

<xs:minInclusive value="0"/>

<xs:maxInclusive value="86400"/>

</xs:restriction>

</xs:simpleType>

<xs:complexType name="FutureDatedAbstractType" abstract="true">

<xs:sequence>

<xs:element minOccurs="0" name="ExecutionDateTime" type="xs:dateTime"/>

</xs:sequence>

</xs:complexType>

<xs:simpleType name="GasThresholdType">

<xs:restriction base="xs:unsignedLong">

<xs:maxInclusive value="281474976710655"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="PriceScale">

<xs:restriction base="xs:integer">

<xs:minInclusive value="-128"/>

<xs:maxInclusive value="127"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="PriceType">

<xs:restriction base="xs:short"/>

</xs:simpleType>

<xs:complexType abstract="true" name="MandatoryFutureDatedAbstractType">

<xs:sequence>

<xs:element name="ExecutionDateTime" type="xs:dateTime"/>

</xs:sequence>

</xs:complexType>

<!-- tariff definitions -->

<!-- Seasons -->

<xs:complexType name="ElecSeasonsPrimary">

<xs:sequence>

<xs:element name="Season" type="sr:ElecSeasonPrimary" maxOccurs="4" minOccurs="1"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ElecSeasonsSecondary">

<xs:sequence>

<xs:element name="Season" type="sr:ElecSeasonSecondary" maxOccurs="4" minOccurs="1"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasSeasons">

<xs:sequence>

<xs:element name="Season" type="sr:GasSeason" maxOccurs="3" minOccurs="1"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasSeasonsNonDisablement">

<xs:sequence>

<xs:element name="Season" type="sr:GasSeasonNonDisablement" maxOccurs="3" minOccurs="1"

/>

</xs:sequence>

</xs:complexType>

<!-- Switches -->

<xs:complexType name="ElecSwitchingTablePrimary">

<xs:sequence>

<xs:element name="DayProfiles" type="sr:ElecDayProfiles"/>

<xs:element name="WeekProfiles" type="sr:ElecWeekProfiles"/>

<xs:element name="Seasons" type="sr:ElecSeasonsPrimary"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ElecSwitchingTableSecondary">

<xs:sequence>

<xs:element name="DayProfiles" type="sr:ElecDayProfilesSecondary"/>

<xs:element name="WeekProfiles" type="sr:ElecWeekProfiles"/>

<xs:element name="Seasons" type="sr:ElecSeasonsSecondary"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasSwitchingTable">

<xs:sequence>

<xs:element name="DayProfiles" type="sr:GasDayProfiles"/>

<xs:element name="WeekProfiles" type="sr:GasWeekProfiles"/>

<xs:element name="Seasons" type="sr:GasSeasons"/>

</xs:sequence>

</xs:complexType>

<!-- Season -->

<xs:complexType name="ElecSeasonPrimary">

<xs:sequence maxOccurs="1" minOccurs="1">

<xs:element name="SeasonName">

<xs:simpleType>

<xs:restriction base="xs:string">

<xs:maxLength value="8"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

<xs:element name="SeasonStartDate" type="sr:Date"/>

<xs:element name="ReferencedWeekName" type="sr:ElecWeekName"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ElecSeasonSecondary">

<xs:sequence maxOccurs="1" minOccurs="1">

<xs:element name="SeasonName">

<xs:simpleType>

<xs:restriction base="xs:string">

<xs:maxLength value="8"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

<xs:element name="SeasonStartDate" type="sr:Date"/>

<xs:element name="ReferencedWeekName" type="sr:ElecWeekName"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasSeason">

<xs:sequence maxOccurs="1" minOccurs="1">

<xs:element name="SeasonStartDate" type="sr:GasDateWithWildcards"/>

<xs:element name="ReferencedWeekName" type="sr:GasWeekName"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasSeasonNonDisablement">

<xs:sequence maxOccurs="1" minOccurs="1">

<xs:element name="SeasonStartDate" type="sr:GasDateWithWildcards"/>

<xs:element name="ReferencedWeekName" type="sr:GasWeekNameNonDisablement"/>

</xs:sequence>

</xs:complexType>

<!-- Week Profiles -->

<xs:complexType name="ElecWeekProfiles">

<xs:sequence>

<xs:element name="WeekProfile" type="sr:ElecWeekProfile" maxOccurs="4" minOccurs="1"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasWeekProfiles">

<xs:sequence>

<xs:element name="WeekProfile" type="sr:WeekProfileGas" maxOccurs="2" minOccurs="1"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasWeekProfilesNonDisablement">

<xs:sequence>

<xs:element name="WeekProfile" type="sr:WeekProfileGasNonDisablement" maxOccurs="2"

minOccurs="1"/>

</xs:sequence>

</xs:complexType>

<!-- Week Profile -->

<xs:complexType name="ElecWeekProfile">

<xs:sequence maxOccurs="1" minOccurs="1">

<xs:element name="WeekName" type="sr:ElecWeekName"/>

<xs:element name="ReferencedDayName" type="sr:ElecReferencedDayName" minOccurs="7"

maxOccurs="7"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="WeekProfileGas">

<xs:sequence maxOccurs="1" minOccurs="1">

<xs:element name="WeekName" type="sr:GasWeekName"/>

<xs:element name="ReferencedDayName" type="sr:GasReferencedDayName" minOccurs="7"

maxOccurs="7"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="WeekProfileGasNonDisablement">

<xs:sequence maxOccurs="1" minOccurs="1">

<xs:element name="WeekName" type="sr:GasWeekName"/>

<xs:element name="ReferencedDayName" type="sr:GasReferencedDayNameNonDisablement"

minOccurs="7" maxOccurs="7"/>

</xs:sequence>

</xs:complexType>

<!-- Day Profiles -->

<xs:complexType name="ElecDayProfiles">

<xs:sequence>

<xs:element name="DayProfile" type="sr:ElecDayProfilePrimary" maxOccurs="16"

minOccurs="1"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ElecDayProfilesSecondary">

<xs:sequence>

<xs:element name="DayProfile" type="sr:ElecDayProfileSecondary" maxOccurs="16"

minOccurs="1"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasDayProfiles">

<xs:sequence>

<xs:element name="DayProfile" type="sr:GasDayProfile" maxOccurs="4" minOccurs="1"/>

</xs:sequence>

</xs:complexType>

<!-- Day Profile -->

<xs:complexType name="ElecDayProfilePrimary">

<xs:sequence maxOccurs="1" minOccurs="1">

<xs:element name="DayName" type="sr:ElecDayName"/>

<xs:element name="ProfileSchedule" maxOccurs="48" minOccurs="1"

type="sr:ElecProfileSchedulePrimary"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ElecProfileSchedulePrimary">

<xs:sequence maxOccurs="1" minOccurs="1">

<xs:element name="StartTime" type="xs:time"> </xs:element>

<xs:choice>

<xs:element name="TOUTariffAction">

<xs:simpleType>

<xs:restriction base="xs:positiveInteger">

<xs:minInclusive value="1"/>

<xs:maxInclusive value="48"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

<xs:element name="BlockTariffAction">

<xs:simpleType>

<xs:restriction base="xs:positiveInteger">

<xs:minInclusive value="1"/>

<xs:maxInclusive value="8"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

</xs:choice>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ElecDayProfileSecondary">

<xs:sequence maxOccurs="1" minOccurs="1">

<xs:element name="DayName" type="sr:ElecDayName"/>

<xs:element name="ProfileSchedule" maxOccurs="48" minOccurs="1"

type="sr:ElecProfileScheduleSecondary"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ElecProfileScheduleSecondary">

<xs:sequence maxOccurs="1" minOccurs="1">

<xs:element name="StartTime" type="xs:time"> </xs:element>

<xs:element name="TOUTariffAction">

<xs:simpleType>

<xs:restriction base="xs:positiveInteger">

<xs:minInclusive value="1"/>

<xs:maxInclusive value="4"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasDayProfile">

<xs:sequence maxOccurs="1" minOccurs="1">

<xs:element name="DayName" type="sr:GasDayName"/>

<xs:choice>

<xs:element name="TOUTariffAction">

<xs:simpleType>

<xs:restriction base="xs:positiveInteger">

<xs:minInclusive value="1"/>

<xs:maxInclusive value="4"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

<xs:element name="BlockTariff" type="sr:NoType"/>

</xs:choice>

</xs:sequence>

</xs:complexType>

<!-- Special Days -->

<xs:complexType name="ElecSpecialDaysPrimary">

<xs:sequence>

<xs:element name="SpecialDay" type="sr:ElecSpecialDayPrimary" minOccurs="0"

maxOccurs="50"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ElecSpecialDayPrimary">

<xs:sequence maxOccurs="1" minOccurs="1">

<xs:element name="Date" type="sr:Date"/>

<xs:element name="ReferencedDayName" type="sr:ElecDayName"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ElecSpecialDaysSecondary">

<xs:sequence>

<xs:element name="SpecialDay" type="sr:ElecSpecialDaySecondary" minOccurs="0"

maxOccurs="50"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ElecSpecialDaySecondary">

<xs:sequence maxOccurs="1" minOccurs="1">

<xs:element name="Date" type="sr:Date"/>

<xs:element name="ReferencedDayName" type="sr:ElecDayName"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasSpecialDays">

<xs:sequence>

<xs:element name="SpecialDay" type="sr:GasSpecialDay" minOccurs="0" maxOccurs="20"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasSpecialDaysNonDisablement">

<xs:sequence>

<xs:element name="SpecialDay" type="sr:GasSpecialDayNonDisablement" minOccurs="0"

maxOccurs="20"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasSpecialDay">

<xs:sequence maxOccurs="1">

<xs:element name="Date" type="sr:GasDateWithWildcards"/>

<xs:element name="ReferencedDayName" type="sr:GasDayName"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasSpecialDayNonDisablement">

<xs:sequence maxOccurs="1">

<xs:element name="Date" type="sr:GasDateWithWildcards"/>

<xs:element name="ReferencedDayName" type="sr:GasDayNameNonDisablement"/>

</xs:sequence>

</xs:complexType>

<!-- thresholds -->

<xs:complexType name="ElecThresholdMatrix">

<xs:sequence>

<xs:element name="Thresholds" type="sr:ElecThresholds" minOccurs="8" maxOccurs="8"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasThresholdMatrix">

<xs:sequence>

<xs:element name="BlockThreshold" type="sr:GasThreshold" minOccurs="1" maxOccurs="3"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasThreshold">

<xs:simpleContent>

<xs:extension base="sr:GasThresholdType">

<xs:attribute name="index" type="sr:range\_1\_3" use="required"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

<xs:complexType name="ElecThresholds">

<xs:sequence>

<xs:element name="BlockThreshold" minOccurs="1" maxOccurs="3">

<xs:complexType>

<xs:simpleContent>

<xs:extension base="xs:unsignedInt">

<xs:attribute name="index" type="sr:range\_1\_3" use="required"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

</xs:sequence>

<xs:attribute name="index" type="sr:range\_1\_8" use="required"/>

</xs:complexType>

<!-- top level tariff -->

<xs:complexType name="ElecTariffElements">

<xs:sequence>

<xs:element name="CurrencyUnits">

<xs:simpleType>

<xs:restriction base="xs:string">

<xs:enumeration value="GBP"/>

<xs:enumeration value="ECB"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

<xs:element name="SwitchingTable" type="sr:ElecSwitchingTablePrimary"/>

<xs:element name="SpecialDays" type="sr:ElecSpecialDaysPrimary"/>

<xs:element name="ThresholdMatrix" type="sr:ElecThresholdMatrix"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasTariffElements">

<xs:sequence>

<xs:element name="SwitchingTable" type="sr:GasSwitchingTable"/>

<xs:element name="SpecialDays" type="sr:GasSpecialDays"/>

<xs:element name="ThresholdMatrix" type="sr:GasThresholdMatrix"/>

</xs:sequence>

</xs:complexType>

<!-- simple types days -->

<xs:simpleType name="ElecDayName">

<xs:restriction base="xs:positiveInteger">

<xs:minInclusive value="1"/>

<xs:maxInclusive value="16"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="GasDayNameNonDisablement">

<xs:restriction base="xs:positiveInteger">

<xs:minInclusive value="1"/>

<xs:maxInclusive value="5"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="GasDayName">

<xs:restriction base="xs:positiveInteger">

<xs:minInclusive value="1"/>

<xs:maxInclusive value="4"/>

</xs:restriction>

</xs:simpleType>

<xs:complexType name="ElecReferencedDayName">

<xs:simpleContent>

<xs:extension base="sr:ElecDayName">

<xs:attribute name="index" type="sr:range\_1\_7" use="required"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

<xs:complexType name="GasReferencedDayNameNonDisablement">

<xs:simpleContent>

<xs:extension base="sr:GasDayNameNonDisablement">

<xs:attribute name="index" type="sr:range\_1\_7" use="required"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

<xs:complexType name="GasReferencedDayName">

<xs:simpleContent>

<xs:extension base="sr:GasDayName">

<xs:attribute name="index" type="sr:range\_1\_7" use="required"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

<!-- simple types weeks -->

<xs:simpleType name="ElecWeekName">

<xs:restriction base="xs:positiveInteger">

<xs:minInclusive value="1"/>

<xs:maxInclusive value="4"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="GasWeekName">

<xs:restriction base="xs:positiveInteger">

<xs:minInclusive value="1"/>

<xs:maxInclusive value="2"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="GasWeekNameNonDisablement">

<xs:restriction base="xs:positiveInteger">

<xs:minInclusive value="1"/>

<xs:maxInclusive value="2"/>

</xs:restriction>

</xs:simpleType>

<!-- Blocks -->

<xs:complexType name="ElecBlocks">

<xs:sequence>

<xs:element name="BlockPrice" type="sr:ElecBlockPrice" minOccurs="1" maxOccurs="4"/>

</xs:sequence>

<xs:attribute name="index" type="sr:range\_1\_8" use="required"/>

</xs:complexType>

<xs:complexType name="ElecBlockPrice">

<xs:simpleContent>

<xs:extension base="sr:PriceType">

<xs:attribute name="index" type="sr:range\_1\_4" use="required"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

<xs:complexType name="GasBlockPrice">

<xs:simpleContent>

<xs:extension base="xs:unsignedInt">

<xs:attribute name="index" type="sr:range\_1\_4" use="required"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

<!-- TOUs -->

<xs:complexType name="ElecPrimaryTOUPrice">

<xs:simpleContent>

<xs:extension base="sr:PriceType">

<xs:attribute name="index" type="sr:range\_1\_48" use="required"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

<xs:complexType name="ElecSecondaryTOUPrice">

<xs:simpleContent>

<xs:extension base="sr:PriceType">

<xs:attribute name="index" type="sr:range\_1\_4" use="required"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

<xs:complexType name="GasTOUPrice">

<xs:simpleContent>

<xs:extension base="xs:unsignedInt">

<xs:attribute name="index" type="sr:range\_1\_4" use="required"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

<!-- top level prices -->

<xs:complexType name="PricePrimary">

<xs:sequence>

<xs:choice>

<xs:element name="ElectricityPriceElements" type="sr:ElecPriceElementsPrimary"/>

<xs:element name="GasPriceElements" type="sr:GasPriceElements"/>

</xs:choice>

</xs:sequence>

</xs:complexType>

<xs:complexType name="PriceSecondary">

<xs:sequence>

<xs:element name="PriceScale" type="sr:PriceScale"/>

<xs:element name="ElectricityPriceElement" type="sr:ElecSecondaryTOUPrice" maxOccurs="4"

minOccurs="1"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasPriceElements">

<xs:sequence>

<xs:element name="CurrencyUnits">

<xs:simpleType>

<xs:restriction base="xs:string">

<xs:enumeration value="GBP"/>

<xs:enumeration value="ECB"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

<xs:element name="StandingCharge" type="xs:unsignedInt"/>

<xs:choice>

<xs:element name="BlockTariff" type="sr:GasBlockPriceMatrix"/>

<xs:element name="TOUTariff" type="sr:GasTOUPriceMatrix"/>

</xs:choice>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasBlockPriceMatrix">

<xs:sequence>

<xs:element name="BlockPrice" type="sr:GasBlockPrice" maxOccurs="4" minOccurs="1"/>

<xs:element name="NumberOfThresholds" maxOccurs="1" minOccurs="1">

<xs:simpleType>

<xs:restriction base="xs:positiveInteger">

<xs:minInclusive value="1"/>

<xs:maxInclusive value="3"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasTOUPriceMatrix">

<xs:sequence>

<xs:element name="TOUPrice" type="sr:GasTOUPrice" maxOccurs="4" minOccurs="1"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ElecPriceElementsPrimary">

<xs:sequence>

<xs:element name="StandingCharge" type="sr:PriceType"/>

<xs:element name="StandingChargeScale" type="sr:PriceScale"/>

<xs:element name="PriceScale" type="sr:PriceScale"/>

<xs:choice>

<xs:element name="BlockTariff" type="sr:ElecBlockTariff"/>

<xs:element name="TOUTariff" type="sr:ElecTOUTariff"/>

<xs:element name="HybridTariff" type="sr:ElecHybridTariff"/>

</xs:choice>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ElecBlockTariff">

<xs:sequence>

<xs:element name="BlockPrices" type="sr:ElecBlocks" maxOccurs="8" minOccurs="1"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ElecTOUTariff">

<xs:sequence>

<xs:element name="TOUPrice" type="sr:ElecPrimaryTOUPrice" maxOccurs="48" minOccurs="1"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ElecHybridTariff">

<xs:sequence>

<xs:element name="BlockPrices" type="sr:ElecBlocks" maxOccurs="8" minOccurs="1"/>

<xs:element name="TOUPrice" type="sr:ElecPrimaryTOUPrice" maxOccurs="48" minOccurs="1"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="TariffPrimaryElement">

<xs:complexContent>

<xs:extension base="sr:FutureDatedAbstractType">

<xs:sequence>

<xs:choice>

<xs:element name="ElecTariffElements" type="sr:ElecTariffElements"/>

<xs:element name="GasTariffElements" type="sr:GasTariffElements"/>

</xs:choice>

<xs:element name="PriceElements" type="sr:PricePrimary"/>

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

<xs:complexType name="TariffSecondaryElement">

<xs:complexContent>

<xs:extension base="sr:FutureDatedAbstractType">

<xs:sequence>

<xs:element name="SwitchingTable" type="sr:ElecSwitchingTableSecondary"/>

<xs:element name="SpecialDays" type="sr:ElecSpecialDaysSecondary"/>

<xs:element name="PriceElements" type="sr:PriceSecondary"/>

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

<xs:complexType name="UpdatePricePrimaryElement">

<xs:complexContent>

<xs:extension base="sr:FutureDatedAbstractType">

<xs:sequence>

<xs:element name="PriceElements" type="sr:PricePrimary"/>

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

<xs:complexType name="UpdatePriceSecondaryElement">

<xs:complexContent>

<xs:extension base="sr:FutureDatedAbstractType">

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<xs:element name="PriceElements" type="sr:PriceSecondary"/>

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<xs:pattern

value="[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}:[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}:(0|[1-9][0-9]{0,18}|1[0-7][0-9]{18}|18[0-3][0-9]{17}|184[0-3][0-9]{16}|1844[0-5][0-9]{15}|18446[0-6][0-9]{14}|184467[0-3][0-9]{13}|1844674[0-3][0-9]{12}|184467440[0-6][0-9]{10}|1844674407[0-2][0-9]{9}|18446744073[0-6][0-9]{8}|1844674407370[0-8][0-9]{6}|18446744073709[0-4][0-9]{5}|184467440737095[0-4][0-9]{4}|18446744073709550[0-9]{3}|18446744073709551[0-5][0-9]{2}|1844674407370955160[0-9]|1844674407370955161[0-5])"

/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="EUI">

<xs:restriction base="xs:token">

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</xs:simpleType>

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<xs:element name="ReadLogPeriod" type="sr:ReadLogPeriod"/>

</xs:sequence>

</xs:complexType>

<xs:complexType abstract="true" name="ReadLogPeriodFDAbstractType">

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<xs:element name="ReadLogPeriod" type="sr:ReadLogPeriod"/>

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</xs:extension>

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<xs:complexType name="ReadLogPeriod">

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<xs:element name="StartDateTime" type="xs:dateTime"/>

<xs:element name="EndDateTime" type="xs:dateTime"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ReadDataOnDemand"/>

<xs:complexType name="NoType"/>

<xs:complexType name="ReadDataOnDemandOrFutureDated">

<xs:complexContent>

<xs:extension base="sr:FutureDatedAbstractType"/>

</xs:complexContent>

</xs:complexType>

<xs:complexType name="ReadLogOnDemand">

<xs:complexContent>

<xs:extension base="sr:ReadLogPeriodAbstractType"/>

</xs:complexContent>

</xs:complexType>

<xs:complexType name="ReadLogFutureDatable">

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<xs:extension base="sr:ReadLogPeriodFDAbstractType"/>

</xs:complexContent>

</xs:complexType>

<xs:complexType name="ReadLogFutureDatableAndURPCredentials">

<xs:complexContent>

<xs:extension base="sr:ReadLogPeriodFDAbstractType">

<xs:sequence minOccurs="0">

<xs:element name="KAPublicSecurityCredentials" type="sr:Certificate"/>

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

<xs:complexType name="ReadLogPeriodOffset">

<xs:sequence>

<xs:element name="StartDateOffset" type="sr:logPeriodOffset"/>

<xs:element name="StartTime" type="xs:time"/>

<xs:element name="EndDateOffset" type="sr:logPeriodOffset"/>

<xs:element name="EndTime" type="xs:time"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="UpdatePrepayConfiguration">

<xs:complexContent>

<xs:extension base="sr:FutureDatedAbstractType">

<xs:choice>

<xs:element name="UpdatePrepayConfigElectricity"

type="sr:UpdatePrepayConfigElec"/>

<xs:element name="UpdatePrepayConfigGas" type="sr:UpdatePrepayConfigGas"/>

</xs:choice>

</xs:extension>

</xs:complexContent>

</xs:complexType>

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<xs:element name="DebtRecoveryRateCap" type="xs:unsignedShort"/>

<xs:element name="EmergencyCreditLimit" type="xs:int"/>

<xs:element name="EmergencyCreditThreshold" type="xs:int"/>

<xs:element name="LowCreditThreshold" type="xs:int"/>

<xs:element name="ElectricityNonDisablementCalendar"

type="sr:ElectricityNonDisablementCalendar"/>

<xs:element name="MaxMeterBalance" type="xs:int"/>

<xs:element name="MaxCreditThreshold" type="xs:int"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="UpdatePrepayConfigGas">

<xs:sequence>

<xs:element name="DebtRecoveryRateCap" type="xs:int"/>

<xs:element name="EmergencyCreditLimit" type="xs:unsignedInt"/>

<xs:element name="EmergencyCreditThreshold" type="xs:unsignedInt"/>

<xs:element name="LowCreditThreshold" type="xs:unsignedInt"/>

<xs:element name="GasNonDisablementCalendar" type="sr:GasNonDisablementCalendar"/>

<xs:element name="MaxMeterBalance" type="xs:unsignedInt"/>

<xs:element name="MaxCreditThreshold" type="xs:unsignedInt"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="PartialAddress">

<xs:sequence>

<xs:element name="PostCode" type="sr:PostCode"> </xs:element>

<xs:element name="AddressIdentifier" type="sr:AddressIdentifier"> </xs:element>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ElecSpecialDaysPrepayment">

<xs:sequence>

<xs:element name="SpecialDay" maxOccurs="20" minOccurs="0">

<xs:complexType>

<xs:complexContent>

<xs:extension base="sr:ElecSpecialDayPrepayment">

<xs:attribute name="index" type="sr:range\_1\_20" use="required"/>

</xs:extension>

</xs:complexContent>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ElecSpecialDayPrepayment">

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</xs:complexType>

<xs:complexType name="ElectricityNonDisablementCalendar">

<xs:sequence maxOccurs="1" minOccurs="1">

<xs:element name="ElectricitySpecialDays" type="sr:ElecSpecialDaysPrepayment"/>

<xs:element name="ElectricityNonDisablementSchedule"

type="sr:ElectricityNonDisablementSchedule" maxOccurs="22" minOccurs="1"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ElectricityNonDisablementSchedule">

<xs:sequence maxOccurs="1" minOccurs="1">

<xs:element name="NonDisablementScript">

<xs:simpleType>

<xs:restriction base="xs:string">

<xs:enumeration value="START"/>

<xs:enumeration value="STOP"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

<xs:element name="SpecialDaysApplicability" type="sr:SpecialDaysApplicability"/>

<xs:element name="DaysOfWeekApplicability" type="sr:DaysOfWeekApplicability"/>

<xs:element name="ScheduleDatesAndTime" type="sr:ScheduleDatesAndTimeWithoutWildcards"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ALCSHCALCSConnectionSchedule">

<xs:sequence maxOccurs="1" minOccurs="1">

<xs:element minOccurs="1" name="ActivateDeactivateSwitch"

type="sr:ActivateDeactivateSwitch"/>

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<xs:attribute name="index" type="sr:range\_1\_20" use="required"/>

</xs:complexType>

</xs:element>

<xs:element name="DaysOfWeekApplicability" type="sr:DaysOfWeekApplicability"

minOccurs="0"/>

<xs:element name="ALCSScheduleDatesAndTime" type="sr:ScheduleDatesAndTime"/>

</xs:sequence>

</xs:complexType>

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<xs:choice>

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</xs:choice>

<xs:attribute name="index" type="sr:range\_1\_5" use="required"/>

</xs:complexType>

<xs:complexType name="MaximumDemandTimePeriodSchedule">

<xs:sequence maxOccurs="1" minOccurs="1">

<xs:element name="StartTime" type="xs:time"/>

<xs:element name="EndTime" type="xs:time"/>

</xs:sequence>

</xs:complexType>

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<xs:element name="StartDate" type="xs:date"/>

<xs:element name="EndDate" type="xs:date"/>

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<xs:complexType name="ScheduleDatesAndTime">

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<xs:element name="EndDate" type="sr:Date"/>

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<xs:element name="SpecialDayID" maxOccurs="1" minOccurs="1">

<xs:simpleType>

<xs:restriction base="xs:positiveInteger">

<!-- Special Day 1 -->

<xs:minInclusive value="1"/>

<!-- Special Day 20 -->

<xs:maxInclusive value="20"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

</xs:sequence>

</xs:complexType>

<xs:complexType name="DaysOfWeekApplicability">

<xs:sequence maxOccurs="1">

<xs:element maxOccurs="7" minOccurs="0" name="DayOfWeekApplicability"

type="sr:DayOfWeekApplicability"> </xs:element>

</xs:sequence>

</xs:complexType>

<xs:complexType name="DayOfWeekApplicability">

<xs:sequence maxOccurs="1">

<xs:element maxOccurs="1" minOccurs="1" name="DayOfWeekID">

<xs:simpleType>

<xs:restriction base="xs:string">

<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="Sunday"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasNonDisablementCalendar">

<xs:sequence>

<xs:element name="DayProfiles" type="sr:GasNonDisablementDayProfiles" maxOccurs="1"

minOccurs="1"/>

<xs:element name="WeekProfiles" type="sr:GasWeekProfilesNonDisablement" maxOccurs="1"

minOccurs="1"/>

<xs:element name="SeasonProfiles" type="sr:GasSeasonsNonDisablement" maxOccurs="1"

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<xs:element name="SpecialDays" type="sr:GasSpecialDaysNonDisablement" maxOccurs="1"

minOccurs="1"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="UpdateSecurityCredentialsKRP">

<xs:complexContent>

<xs:extension base="sr:FutureDatedAbstractType">

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<xs:element name="RemotePartyRole" type="sr:RemotePartyRole"/>

<xs:element name="RemotePartyFloorSeqNumber" minOccurs="0"

type="sr:floorSequenceNumber"/>

<xs:element name="RemotePartyPrepaymentTopUpFloorSeqNumber"

type="sr:floorSequenceNumber" minOccurs="0"/>

<xs:element name="ReplacementCertificates" type="sr:ReplacementCertificatesKRP"> </xs:element>

<xs:element name="CertificationPathCertificates"

type="sr:CertificationPathCertificates"> </xs:element>

<xs:element name="ApplyTimeBasedCPVChecks" type="xs:boolean"/>

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

<xs:complexType name="UpdateSecurityCredentialsDevice">

<xs:sequence>

<xs:element maxOccurs="1" name="DeviceCertificate" type="sr:Certificate"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="IssueSecurityCredentials">

<xs:sequence>

<xs:element name="CredentialType" type="sr:CredentialType"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="RequestHandoverOfDCCControlledDevice">

<xs:complexContent>

<xs:extension base="sr:FutureDatedAbstractType">

<xs:sequence>

<xs:element name="RemotePartyRole" type="sr:RemotePartyRole"/>

<xs:element name="RemotePartyFloorSeqNumber" type="sr:floorSequenceNumber"

minOccurs="0"/>

<xs:element name="RemotePartyPrepaymentTopUpFloorSeqNumber"

type="sr:floorSequenceNumber" minOccurs="0"/>

<xs:element name="ReplacementCertificates"

type="sr:ReplacementCertificatesDCCHandover"> </xs:element>

<xs:element name="CertificationPathCertificates"

type="sr:CertificationPathCertificates"> </xs:element>

<xs:element name="ApplyTimeBasedCPVChecks" type="xs:boolean"/>

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

<xs:simpleType name="EnableDisableAlert">

<xs:restriction base="xs:string">

<xs:enumeration value="Disable"/>

<xs:enumeration value="Enable"/>

</xs:restriction>

</xs:simpleType>

<!-- Supplier ESME Event / Alert Common-->

<xs:complexType name="SupplierESMECommon">

<xs:sequence>

<xs:element name="x810D" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x810E" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8119" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8145" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8154" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8155" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8161" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8162" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8168" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8183" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x81A0" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x81A1" type="sr:EnableDisableAlert" minOccurs="0"/>

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<xs:element name="x81A9" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x81AA" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x81AB" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x81AC" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x81AD" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x81AE" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x81AF" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x81B0" type="sr:EnableDisableAlert" minOccurs="0"/>

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<xs:element name="x81BC" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x81BD" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x81BE" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x81C0" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x81C1" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x81C4" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x81C5" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x81C6" type="sr:EnableDisableAlert" minOccurs="0"/>

</xs:sequence>

</xs:complexType>

<!-- Supplier ESME Event / Alert Single Phase -->

<!-- Supplier ESME Event / Alert Poly Phase -->

<xs:complexType name="SupplierESMEPolyPhase">

<xs:sequence>

<xs:element name="x81B7" type="sr:EnableDisableAlert" minOccurs="0"/>

</xs:sequence>

</xs:complexType>

<!-- Electricity Supplier Event / Alert -->

<xs:complexType name="ElectricitySupplierAlerts">

<xs:sequence>

<xs:element name="SupplierESMECommon" type="sr:SupplierESMECommon" minOccurs="0"

maxOccurs="1"/>

<xs:element name="SupplierESMEPolyPhase" type="sr:SupplierESMEPolyPhase" minOccurs="0"

maxOccurs="1"/>

</xs:sequence>

</xs:complexType>

<!-- Network Operator ESME Event / Alert Common -->

<xs:complexType name="NetworkOperatorESMECommon">

<xs:sequence>

<xs:element name="x8014" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8015" type="sr:EnableDisableAlert" minOccurs="0"/>

</xs:sequence>

</xs:complexType>

<!-- Network Operator ESME Event / Alert Single Phase -->

<xs:complexType name="NetworkOperatorESMESinglePhase">

<xs:sequence>

<xs:element name="x8002" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8006" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8020" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8024" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8028" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x802C" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8085" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8089" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x808D" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8091" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8095" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8099" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8010" type="sr:EnableDisableAlert" minOccurs="0"/>

</xs:sequence>

</xs:complexType>

<!-- Network Operator ESME Event / Alert Poly Phase -->

<xs:complexType name="NetworkOperatorESMEPolyPhase">

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<xs:element name="x8003" type="sr:EnableDisableAlert" minOccurs="0"/>

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<xs:element name="x8007" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8008" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8009" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8021" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8022" type="sr:EnableDisableAlert" minOccurs="0"/>

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<xs:element name="x802A" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x802B" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x802D" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x802E" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x802F" type="sr:EnableDisableAlert" minOccurs="0"/>

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<xs:element name="x808A" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x808B" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x808C" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x808E" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x808F" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8090" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8092" type="sr:EnableDisableAlert" minOccurs="0"/>

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<xs:element name="x809A" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x809B" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x809C" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8011" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8016" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8013" type="sr:EnableDisableAlert" minOccurs="0"/>

</xs:sequence>

</xs:complexType>

<!-- Electricity Network Operator Event / Alert -->

<xs:complexType name="ElectricityNetworkOperatorAlerts">

<xs:sequence>

<xs:element name="NetworkOperatorESMECommon" type="sr:NetworkOperatorESMECommon"

minOccurs="0" maxOccurs="1"/>

<xs:choice>

<xs:element name="NetworkOperatorESMESinglePhase"

type="sr:NetworkOperatorESMESinglePhase" minOccurs="0" maxOccurs="1"/>

<xs:element name="NetworkOperatorESMEPolyPhase"

type="sr:NetworkOperatorESMEPolyPhase" minOccurs="0" maxOccurs="1"/>

</xs:choice>

</xs:sequence>

</xs:complexType>

<!-- Supplier GSME WAN Alerts -->

<xs:complexType name="SupplierGSME">

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<xs:element name="x810E" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8119" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8145" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element minOccurs="0" name="x8154" type="sr:EnableDisableAlert"/>

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<xs:element name="x8168" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8183" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x8184" type="sr:EnableDisableAlert" minOccurs="0"/>

<xs:element name="x81A1" type="sr:EnableDisableAlert" minOccurs="0"/>

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<!-- Supplier GSME Event / Alert -->

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<xs:element name="ElectricityNetworkOperatorAlerts"

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type="sr:ElectricityNetworkOperatorAlerts"/>

<xs:element name="GasSupplierAlerts" type="sr:SupplierGSME"/>

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<xs:element name="SupplierFloorSeqNumber" type="sr:floorSequenceNumber"/>

<xs:element name="SupplierPrepaymentTopUpFloorSeqNumber"

type="sr:floorSequenceNumber" minOccurs="0"/>

<xs:element name="SupplierReplacementCertificates"

type="sr:ReplacementCertificatesCoS"> </xs:element>

<xs:element name="CertificationPathCertificates"

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<xs:element name="ImportMPxN" type="sr:ImportMPxN"> </xs:element>

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<xs:complexType name="ServiceOptOut">

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<xs:extension base="sr:MandatoryFutureDatedAbstractType">

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<xs:element name="ACBFloorSeqNumber" type="sr:floorSequenceNumber"/>

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type="sr:CertificationPathCertificates"> </xs:element>

<xs:element name="ApplyTimeBasedCPVChecks" type="xs:boolean"/>

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<xs:enumeration value="Recovery"/>

<xs:enumeration value="Root"/>

<xs:enumeration value="Supplier"/>

<xs:enumeration value="TransCoS"/>

<xs:enumeration value="LoadController"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="Certificate">

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<!-- Services -->

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<xs:element name="PaymentDebtRegister" type="xs:int"/>

<xs:element name="DebtRecoveryPerPayment">

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<xs:complexType name="ReadInstantaneousImportRegisters">

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<xs:element name="LoadLimitPowerThreshold" type="xs:unsignedInt"/>

<xs:element name="LoadLimitRestorationPeriod" type="xs:unsignedInt"/>

<xs:element name="LoadLimitSupplyState">

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<xs:restriction base="xs:string">

<xs:enumeration value="Disable"/>

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</xs:simpleType>

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type="sr:AverageRMSVoltageSettings"/>

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type="sr:PolyPhaseVoltageSettings" maxOccurs="3" minOccurs="3"/>

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<xs:element name="RMSVoltageCountersNotReset" type="sr:NoType" minOccurs="0"/>

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</xs:simpleType>

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<xs:element name="BillingPeriodStartMonth" type="sr:BillingPeriodStartMonth"/>

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<xs:element name="Quarterly" type="sr:BillingCalendarQSMY"/>

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<xs:enumeration value="Daily"/>

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<xs:enumeration value="Monthly"/>

<xs:enumeration value="Quarterly"/>

<xs:enumeration value="SixMonthly"/>

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<xs:element name="CurrentDateTime" type="xs:dateTime"/>

<xs:element name="TolerancePeriod" type="sr:tolerancePeriod"/>

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<xs:complexType name="UpdateDeviceConfigurationInstantaneousPowerThreshold">

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<xs:element name="MediumHighPowerThreshold" type="xs:unsignedInt"/>

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</xs:extension>

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<xs:complexType name="ReadEventOrSecurityLog">

<xs:complexContent>

<xs:extension base="sr:ReadLogOnDemand">

<xs:sequence>

<xs:element name="LogToRead">

<xs:simpleType>

<xs:restriction base="xs:string">

<xs:enumeration value="Event"/>

<xs:enumeration value="ALCSEvent"/>

<xs:enumeration value="PowerEvent"/>

<xs:enumeration value="Security"/>

<xs:enumeration value="GSMEEvent"/>

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<!-- CV Value Input Output MoO Process Critical Return SM WAN Req Resp

Pattern to SU WS WS

=============================================================================================

1 SR Cmd OD & Async No No Yes SC RRS

FD

2 SR Cmd LD OD Sync No Yes No DO C DO

3 SR Cmd & OD Sync & No Yes Yes SC RRS

Cmd LD Async

4 SR Pre-Cmd T Sync Yes Yes No T C T

5 Signed Cmd OD & Async Yes No Yes SC RRS

Pre-Cmd FD

6 Signed Cmd LD OD Sync Yes Yes No DO C DO

Pre-Cmd

7 Signed Cmd & OD Sync & Yes Yes Yes SC RRS

Pre-Cmd Cmd LD Async

8 SR SResponse DO Sync No Yes No DO C DO

from DCC

9 (N/A to SR - Internal to DCC Data Systems)

Cmd = Command

Cmd LD = Command for Local Delivery

C OD = Completion of DCC Only Request

C T = Completion of Transform Request

CV = Command Variant

DO = DCC Only

FD = Future Dated

MoO = Mode of Operation

OD = On Demand

RRS = Receive Response Service

SC = Send Command

SR = Service Request

SResponse = Service Response

SU = Service User

T = Transform

WS = Web Service

-->

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<xs:element name="Channel61" type="sr:NoType" minOccurs="0"/>

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<xs:element name="LowerBandSubGHzChannels27To34" type="sr:Channels27To34"/>

<xs:element name="LowerBandSubGHzChannels35To61" type="sr:Channels35To61"/>

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</xs:restriction>

</xs:simpleType>

</xs:element>

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<xs:element name="NonGSMEPoorCommsPercentageThreshold">

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<xs:maxInclusive value="100.00"/>

<xs:fractionDigits value="2"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

<xs:element name="NonGSMEPoorCommsMeasurementPeriods">

<xs:simpleType>

<xs:restriction base="xs:unsignedShort">

<xs:minInclusive value="50"/>

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</xs:restriction>

</xs:simpleType>

</xs:element>

<xs:element name="LocalCHNoiseMeasurementPeriod">

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<xs:enumeration value="Quarterly"/>

<xs:enumeration value="Half-Yearly"/>

<xs:enumeration value="Yearly"/>

</xs:restriction>

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<xs:enumeration value="Whitelisted"/>

<xs:enumeration value="InstalledNotCommissioned"/>

<xs:enumeration value="Commissioned"/>

<xs:enumeration value="Decommissioned"/>

<xs:enumeration value="Withdrawn"/>

<xs:enumeration value="Suspended"/>

<xs:enumeration value="Recovery"/>

<xs:enumeration value="Recovered"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="UpdateDeviceStatusExceptCH">

<xs:restriction base="xs:string">

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<xs:enumeration value="InstalledNotCommissioned"/>

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</xs:simpleType>

<xs:simpleType name="UpdateDeviceStatusCH">

<xs:restriction base="xs:string">

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<xs:enumeration value="Withdrawn"/>

<xs:enumeration value="InstalledNotCommissioned"/>

</xs:restriction>

</xs:simpleType>

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<xs:enumeration value="GSME"/>

<xs:enumeration value="GPF"/>

<xs:enumeration value="CHF"/>

<xs:enumeration value="HCALCS"/>

<xs:enumeration value="PPMID"/>

<xs:enumeration value="IHD"/>

<xs:enumeration value="CAD"/>

</xs:restriction>

</xs:simpleType>

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<xs:element name="DayOfWeek" type="sr:DayOfWeek"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="Year">

<xs:choice>

<xs:element name="SpecifiedYear">

<xs:simpleType>

<xs:restriction base="xs:nonNegativeInteger">

<xs:minInclusive value="2014"/>

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</xs:simpleType>

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<xs:complexType name="Month">

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<xs:element name="SpecifiedMonth">

<xs:simpleType>

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<xs:element name="SpecifiedDayOfWeek">

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</xs:restriction>

</xs:simpleType>

</xs:element>

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<!-- gas wildcard date -->

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<xs:element name="GasDayOfWeekWithWildcards" type="sr:GasDayOfWeekWithWildcards"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="GasYearWithWildcards">

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<xs:element name="SpecifiedYear">

<xs:simpleType>

<xs:restriction base="xs:nonNegativeInteger">

<xs:minInclusive value="2014"/>

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</xs:restriction>

</xs:simpleType>

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<xs:element name="NonSpecifiedYear" type="sr:NoType"/>

</xs:choice>

</xs:complexType>

<xs:complexType name="GasMonthWithWildcards">

<xs:choice>

<xs:element name="SpecifiedMonth">

<xs:simpleType>

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<xs:maxInclusive value="31"/>

<xs:totalDigits value="2"/>

</xs:restriction>

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</xs:choice>

</xs:complexType>

<xs:complexType name="GasDayOfWeekWithWildcards">

<xs:choice>

<xs:element name="SpecifiedDayOfWeek">

<xs:simpleType>

<xs:restriction base="xs:nonNegativeInteger">

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</xs:restriction>

</xs:simpleType>

</xs:element>

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</xs:complexType>

<xs:complexType name="UpdateDeviceConfigurationALCDescriptions">

<xs:sequence>

<xs:choice>

<xs:element name="ALCSHCALCSDescription" type="sr:ALCSHCALCSDescription"

maxOccurs="5"/>

</xs:choice>

</xs:sequence>

</xs:complexType>

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type="sr:ALCSHCALCSConnectionSchedule" maxOccurs="48" minOccurs="1"/>

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<xs:element name="HCALCS" type="sr:EUI"/>

</xs:choice>

<xs:attribute name="index" type="sr:range\_1\_5" use="required"/>

</xs:complexType>

<xs:complexType name="ALCSHCALCSSpecialDays">

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</xs:sequence>

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<xs:element name="DSPScheduleID" type="sr:scheduleID"/>

<xs:element name="DeviceID" type="sr:EUI"/>

</xs:choice>

</xs:complexType>

<xs:complexType name="DeleteSchedule">

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<xs:element name="DSPScheduleID" type="sr:scheduleID"/>

<xs:element name="DeviceID" type="sr:EUI"/>

</xs:choice>

</xs:complexType>

<xs:complexType name="DecommissionDevice">

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<xs:element name="DeviceID" type="sr:EUI" minOccurs="1" maxOccurs="1"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="UpdateInventory">

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<xs:element name="DeviceID" type="sr:EUI" minOccurs="1" maxOccurs="1"/>

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<xs:element name="UpdateDeviceStatusExceptCH" type="sr:UpdateDeviceStatusExceptCH"

minOccurs="1" maxOccurs="1"/>

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maxOccurs="1"/>

<xs:element name="UpdateDeviceDetails" type="sr:UpdateDeviceDetails" minOccurs="1"

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<xs:element name="DeleteDevice" minOccurs="1" maxOccurs="1" type="sr:DeleteDevice"/>

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<xs:element name="MPxNs" type="sr:MeterMPxNs" minOccurs="1" maxOccurs="1"/>

<xs:element name="OptInDate" type="xs:date" minOccurs="1" maxOccurs="1"/>

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<xs:complexType name="DisableSupply"/>

<xs:complexType name="ArmSupply"/>

<xs:complexType name="ActivateDeactivateALCSHCALCS">

<xs:sequence maxOccurs="1">

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<xs:complexType name="ResetALCSHCALCS">

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<xs:complexType>

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<xs:attribute name="index" type="sr:range\_1\_5" use="required"/>

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<xs:extension base="sr:FutureDatedAbstractType">

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<xs:element name="RemoveFromBoostButton">

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</xs:restriction>

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</xs:sequence>

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<xs:complexType name="JoinOrUnjoinDevice">

<xs:sequence>

<xs:element name="OtherDeviceID" type="sr:EUI"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ReadDeviceLog">

<xs:complexContent>

<xs:extension base="sr:FutureDatedAbstractType">

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<xs:element name="ReadSecurityDetails">

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</xs:sequence>

</xs:extension>

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<xs:complexType name="UpdateHANDeviceLog">

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<xs:element name="DeviceID" type="sr:EUI"/>

<xs:element name="RequestType">

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<xs:restriction base="xs:string">

<xs:enumeration value="Add"/>

<xs:enumeration value="Remove"/>

</xs:restriction>

</xs:simpleType>

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<xs:element minOccurs="0" name="AddDeviceToCHFWhitelist"

type="sr:AddDeviceToCHFWhitelist"/>

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</xs:extension>

</xs:complexContent>

</xs:complexType>

<xs:complexType name="AddDeviceToCHFWhitelist">

<xs:sequence>

<xs:element name="JoinTimePeriod">

<xs:simpleType>

<xs:restriction base="xs:positiveInteger">

<xs:maxInclusive value="3600"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

<xs:element name="InstallCode">

<xs:simpleType>

<xs:restriction base="xs:hexBinary">

<xs:minLength value="6"/>

<xs:maxLength value="16"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

<xs:element minOccurs="0" name="ImportMPxN" type="sr:ImportMPxN"> </xs:element>

<xs:element minOccurs="0" name="SecondaryImportMPAN" type="sr:MPAN"> </xs:element>

<xs:element minOccurs="0" name="ExportMPAN" type="sr:MPAN"> </xs:element>

</xs:sequence>

</xs:complexType>

<xs:complexType name="RestoreHANDeviceLog">

<xs:sequence>

<xs:element name="OldCHFID" type="sr:EUI"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="RestoreGPFDeviceLog">

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<!-- Data types for the 8.14.x SRs -->

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<xs:enumeration value="Replacement CHF Install"/>

<xs:enumeration value="CHF Install - no SM WAN"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="UserRefID">

<xs:restriction base="xs:string">

<xs:maxLength value="25"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="GISData">

<xs:restriction base="xs:string">

<xs:maxLength value="25"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="CHFLocation">

<xs:restriction base="xs:string">

<xs:enumeration value="Outside Premises"/>

<xs:enumeration value="Indoors on external wall"/>

<xs:enumeration value="Deep indoors"/>

<xs:enumeration value="Basement or Cellar"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="PremiseType">

<xs:restriction base="xs:string">

<xs:enumeration value="Detached / Semi Detached"/>

<xs:enumeration value="Terraced"/>

<xs:enumeration value="Low Rise Apartment (MDU &lt;= 5 floors)"/>

<xs:enumeration value="High Rise Apartment (MDU > 5 floors)"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="CHFFaultReturnType">

<xs:restriction base="xs:string">

<xs:enumeration value="Fault identified prior to installation"/>

<xs:enumeration value="Fault identified post installation"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="CHFNoFaultReturnType">

<xs:restriction base="xs:string">

<xs:enumeration value="No Fault Return (general)"/>

<xs:enumeration value="No Fault Return (non-dom opt out)"/>

<xs:enumeration value="No Fault Return (dual supplier HAN variant replacement)"/>

<xs:enumeration value="No Fault Return (SM WAN variant replacement requested by DCC)"/>

<xs:enumeration value="Lost or Stolen Hub"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="CHFFaultReason">

<xs:restriction base="xs:string">

<xs:enumeration value="Damaged case"/>

<xs:enumeration value="Damaged Connector"/>

<xs:enumeration value="Illegal interference or missing seals"/>

<xs:enumeration value="Environmental conditions exceeded"/>

<xs:enumeration value="SM WAN Fault"/>

<xs:enumeration value="SMHAN Interface Fault"/>

<xs:enumeration value="LED Fault"/>

<xs:enumeration value="Aerial fault"/>

<xs:enumeration value="Manufacturing defect"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="CHFConnectionMethod">

<xs:restriction base="xs:string">

<xs:enumeration value="Hot-shoe"/>

<xs:enumeration value="Cradle"/>

<xs:enumeration value="ESME"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="IncidentReference">

<xs:restriction base="xs:string">

<xs:maxLength value="15"/>

</xs:restriction>

</xs:simpleType>

<xs:complexType name="CHFInstallSuccessSMWAN">

<!-- SR 8.14.1 -->

<xs:sequence>

<xs:element name="DeviceID" type="sr:EUI" minOccurs="1" maxOccurs="1"/>

<xs:element name="CHFInstallType" type="sr:CHFInstallType"/>

<xs:element name="InstallDateTime" type="xs:dateTime" minOccurs="0" maxOccurs="1"/>

<xs:element name="UserRefID" type="sr:UserRefID" minOccurs="0" maxOccurs="1"/>

<xs:element name="MPxN" maxOccurs="1" type="sr:MPxN"> </xs:element>

<xs:element name="GISData" type="sr:GISData" minOccurs="0" maxOccurs="1"/>

<xs:element name="AerialInstall" type="xs:boolean" minOccurs="1" maxOccurs="1"/>

<xs:element name="CHFLocation" type="sr:CHFLocation" minOccurs="1" maxOccurs="1"/>

<xs:element name="AdditionalInformation" minOccurs="0" maxOccurs="1">

<xs:simpleType>

<xs:restriction base="xs:string">

<xs:maxLength value="200"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

</xs:sequence>

</xs:complexType>

<xs:complexType name="CHFInstallSuccessNoSMWAN">

<!-- SR 8.14.2 -->

<xs:sequence>

<xs:element name="DeviceID" type="sr:EUI" minOccurs="1" maxOccurs="1"/>

<xs:element name="CHFInstallType" type="sr:CHFInstallType"/>

<xs:element name="InstallDateTime" type="xs:dateTime" minOccurs="0" maxOccurs="1"/>

<xs:element name="UserRefID" type="sr:UserRefID" minOccurs="0" maxOccurs="1"/>

<xs:element name="MPxN" maxOccurs="1" type="sr:MPxN"> </xs:element>

<xs:element name="GISData" type="sr:GISData" minOccurs="0" maxOccurs="1"/>

<xs:element name="AerialInstall" type="xs:boolean" minOccurs="1" maxOccurs="1"/>

<xs:element name="CHFLocation" type="sr:CHFLocation" minOccurs="1" maxOccurs="1"/>

<xs:element name="PremiseType" type="sr:PremiseType" minOccurs="1" maxOccurs="1"/>

<xs:element name="MetalObstructionCheck" type="xs:boolean" minOccurs="1" maxOccurs="1"/>

<xs:element name="ConnectivityObstructionCheck" type="xs:boolean" minOccurs="1"

maxOccurs="1"/>

<xs:element name="SharedObstructionCheck" type="xs:boolean" minOccurs="1" maxOccurs="1"/>

<xs:element name="AdditionalInformation" minOccurs="0" maxOccurs="1">

<xs:simpleType>

<xs:restriction base="xs:string">

<xs:maxLength value="200"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

</xs:sequence>

</xs:complexType>

<xs:complexType name="CHFFaultReturn">

<!-- SR 8.14.3 -->

<xs:sequence>

<xs:element name="DeviceID" type="sr:EUI" minOccurs="1" maxOccurs="1"/>

<xs:element name="CHFFaultReturnType" type="sr:CHFFaultReturnType" minOccurs="1"

maxOccurs="1"/>

<xs:element name="UserRefDateTime" type="xs:dateTime" minOccurs="0" maxOccurs="1"/>

<xs:element name="UserRefID" type="sr:UserRefID" minOccurs="0" maxOccurs="1"/>

<xs:element name="OtherDeviceID" type="sr:EUI" maxOccurs="1"/>

<xs:element name="IncidentReference" type="sr:IncidentReference" minOccurs="0"

maxOccurs="1"/>

<xs:element name="CHFConnectionMethod" type="sr:CHFConnectionMethod" minOccurs="1"

maxOccurs="1"/>

<xs:element name="CHFFaultReason" type="sr:CHFFaultReason" minOccurs="1" maxOccurs="1"/>

<xs:element name="AdditionalInformation" minOccurs="0" maxOccurs="1">

<xs:simpleType>

<xs:restriction base="xs:string">

<xs:maxLength value="200"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

</xs:sequence>

</xs:complexType>

<xs:complexType name="CHFNoFaultReturn">

<!-- SR 8.14.4 -->

<xs:sequence>

<xs:element name="DeviceID" type="sr:EUI" minOccurs="1" maxOccurs="1"/>

<xs:element name="CHFNoFaultReturnType" type="sr:CHFNoFaultReturnType" minOccurs="1"

maxOccurs="1"/>

<xs:element name="UserRefDateTime" type="xs:dateTime" minOccurs="0" maxOccurs="1"/>

<xs:element name="UserRefID" type="sr:UserRefID" minOccurs="0" maxOccurs="1"/>

<xs:element name="IncidentReference" type="sr:IncidentReference" minOccurs="0"

maxOccurs="1"/>

<xs:element name="AdditionalInformation" minOccurs="0" maxOccurs="1">

<xs:simpleType>

<xs:restriction base="xs:string">

<xs:maxLength value="200"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

</xs:sequence>

</xs:complexType>

<xs:complexType name="UpdateFirmware">

<xs:sequence>

<xs:element name="FirmwareImage">

<xs:simpleType>

<xs:restriction base="xs:base64Binary">

<xs:maxLength value="10240000"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

<xs:element name="FirmwareVersion" type="sr:FirmwareVersion"/>

<xs:element name="DeviceIDList">

<xs:simpleType>

<xs:restriction base="xs:string">

<xs:maxLength value="1199999"/>

<xs:minLength value="23"/>

<xs:pattern

value="([A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2},)\*([A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2})"

/>

</xs:restriction>

</xs:simpleType>

</xs:element>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ReadFirmwareVersion">

<xs:complexContent>

<xs:extension base="sr:FutureDatedAbstractType"/>

</xs:complexContent>

</xs:complexType>

<xs:complexType name="ActivateFirmware">

<xs:complexContent>

<xs:extension base="sr:FutureDatedAbstractType">

<xs:sequence>

<xs:element name="FirmwareHash">

<xs:simpleType>

<xs:restriction base="xs:hexBinary">

<xs:maxLength value="32"/>

<xs:minLength value="32"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

<xs:complexType name="UpdatePPMIDFirmware">

<xs:sequence>

<xs:element name="FirmwareImage">

<xs:simpleType>

<xs:restriction base="xs:base64Binary">

<xs:maxLength value="10240000"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

<xs:element name="FirmwareVersion" type="sr:FirmwareVersion"/>

<xs:element name="DeviceIDList">

<xs:simpleType>

<xs:restriction base="xs:string">

<xs:maxLength value="1199999"/>

<xs:minLength value="23"/>

<xs:pattern

value="([A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2},)\*([A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2}-[A-Fa-f0-9]{2})"

/>

</xs:restriction>

</xs:simpleType>

</xs:element>

</xs:sequence>

</xs:complexType>

<xs:complexType name="RequestWANMatrix">

<xs:choice>

<xs:element name="UPRN" type="sr:UPRN" minOccurs="1" maxOccurs="1"/>

<xs:element name="PartialAddress" type="sr:PartialAddress"/>

</xs:choice>

</xs:complexType>

<xs:complexType name="DevicePrenotification">

<xs:sequence>

<xs:element name="DeviceID" type="sr:EUI" minOccurs="1" maxOccurs="1"/>

<xs:element name="DeviceManufacturer" type="sr:DeviceManufacturer"> </xs:element>

<xs:element name="DeviceModel" type="sr:DeviceModel"> </xs:element>

<xs:element name="DeviceType" type="sr:DeviceType"/>

<xs:element name="SMETSCHTSVersion" type="sr:SMETSCHTSVersion" minOccurs="0"> </xs:element>

<xs:element name="FirmwareVersion" type="sr:FirmwareVersion" minOccurs="0"/>

<xs:element minOccurs="0" name="ESMEVariant" type="sr:ESMEVariant"/>

<xs:element name="AssociatedGPFDeviceID" type="sr:EUI" minOccurs="0" maxOccurs="1"/>

</xs:sequence>

</xs:complexType>

<xs:simpleType name="DeviceManufacturer">

<xs:restriction base="xs:string">

<xs:maxLength value="30"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="DeviceModel">

<xs:restriction base="xs:string">

<xs:maxLength value="30"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="FirmwareVersionStatus">

<xs:restriction base="xs:string">

<xs:enumeration value="Active"/>

<xs:enumeration value="Cancelled"/>

<xs:enumeration value="Expired"/>

<xs:enumeration value="Withdrawn"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="CPLStatus">

<xs:restriction base="xs:string">

<xs:enumeration value="Active"/>

<xs:enumeration value="Cancelled"/>

<xs:enumeration value="Expired"/>

<xs:enumeration value="Withdrawn"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="SMETSCHTSVersion">

<xs:restriction base="xs:string">

<xs:minLength value="1"/>

<xs:maxLength value="20"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="ESMEVariant">

<xs:restriction base="xs:string">

<xs:enumeration value="A"/>

<xs:enumeration value="B"/>

<xs:enumeration value="C"/>

<xs:enumeration value="AD"/>

<xs:enumeration value="BD"/>

<xs:enumeration value="CD"/>

<xs:enumeration value="ADE"/>

<xs:enumeration value="BDE"/>

<xs:enumeration value="CDE"/>

<xs:enumeration value="ADF"/>

<xs:enumeration value="BDF"/>

<xs:enumeration value="CDF"/>

<xs:enumeration value="ADEF"/>

<xs:enumeration value="BDEF"/>

<xs:enumeration value="CDEF"/>

<xs:enumeration value="ADG"/>

<xs:enumeration value="ADEG"/>

<xs:enumeration value="AF"/>

<xs:enumeration value="BF"/>

<xs:enumeration value="CF"/>

<xs:enumeration value="AEF"/>

<xs:enumeration value="BEF"/>

<xs:enumeration value="CEF"/>

<xs:enumeration value="AG"/>

<xs:enumeration value="AEG"/>

</xs:restriction>

</xs:simpleType>

<xs:complexType name="RecordNetworkDataGAS"/>

<xs:simpleType name="AuxiliaryControllerLevel">

<xs:restriction base="xs:unsignedShort">

<xs:minInclusive value="0"/>

<xs:maxInclusive value="100"/>

</xs:restriction>

</xs:simpleType>

<xs:complexType name="ReadAuxiliaryControllerConfigurationData">

<xs:complexContent>

<xs:extension base="sr:FutureDatedAbstractType"> </xs:extension>

</xs:complexContent>

</xs:complexType>

<xs:complexType name="ReadAuxiliaryControllerOperationalData">

<xs:complexContent>

<xs:extension base="sr:FutureDatedAbstractType"> </xs:extension>

</xs:complexContent>

</xs:complexType>

<xs:complexType name="SetAuxiliaryControllerState">

<xs:sequence>

<xs:element name="StartDateTime" type="xs:dateTime"/>

<xs:element name="EndDateTime" type="xs:dateTime"/>

<!-- Note that this will be applied as a percentage to an APC, and anything but 100 will switch off an ALCS or HCALCS -->

<xs:element name="CommandedStateLevel" type="sr:AuxiliaryControllerLevel"/>

<xs:element name="InputFromControlledLoad" type="sr:NoType" minOccurs="0"/>

</xs:sequence>

<xs:attribute name="auxiliaryControllerN" type="sr:range\_1\_5" use="required"/>

</xs:complexType>

<xs:complexType name="UpdateDeviceConfigurationAuxiliaryControllerScheduler">

<xs:complexContent>

<xs:extension base="sr:FutureDatedAbstractType">

<xs:sequence>

<xs:element maxOccurs="120" minOccurs="0" name="AuxiliaryControllerSchedule"

type="sr:AuxiliaryControllerSchedule"/>

<xs:element maxOccurs="1" minOccurs="1"

name="AuxiliaryControllerSpecialDayDefinitions"

type="sr:AuxiliaryControllerSpecialDayDefinitions"/>

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

<xs:complexType name="AuxiliaryControllerSpecialDayDefinitions">

<xs:sequence>

<xs:element maxOccurs="20" minOccurs="0" name="AuxiliaryControllerSpecialDayDefinition">

<xs:complexType>

<xs:complexContent>

<xs:extension base="sr:Date">

<xs:attribute name="identifier" type="sr:range\_1\_20" use="required"/>

</xs:extension>

</xs:complexContent>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

<xs:complexType name="AuxiliaryControllerSchedule">

<xs:sequence maxOccurs="1" minOccurs="1">

<xs:element minOccurs="1" name="AuxiliaryControllerAction"

type="sr:AuxiliaryControllerAction"/>

<xs:element maxOccurs="20" name="SpecialDaysApplicability" minOccurs="0">

<xs:complexType>

<xs:attribute name="identifier" type="sr:range\_1\_20" use="required"/>

</xs:complexType>

</xs:element>

<xs:element name="DaysOfWeekApplicability" type="sr:DaysOfWeekApplicability"

minOccurs="0"/>

<xs:element name="AuxiliaryControllerSchedulePeriodAndTime"

type="sr:ScheduleDatesAndTime"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="AuxiliaryControllerAction">

<xs:sequence>

<!-- Where an Auxiliary Controller is an APC, the number will be used by the Device as a percentage of the maximum energy flow.

For an ALCS or HCALCS, 100 will cause activation of the switch and any other value will cause deactivation. -->

<xs:element name="CommandedStateLevel" type="sr:AuxiliaryControllerLevel"/>

<xs:element name="InputFromControlledLoad" type="sr:NoType" minOccurs="0"/>

</xs:sequence>

<xs:attribute name="auxiliaryControllerN" type="sr:range\_1\_5" use="required"/>

</xs:complexType>

<xs:complexType name="LimitAPCLevel">

<xs:sequence>

<xs:element name="StartDateTime" type="xs:dateTime"/>

<xs:element name="EndDateTime" type="xs:dateTime"/>

<xs:element name="CommandedStateLevel" type="sr:AuxiliaryControllerLevel"/>

<xs:element name="InputFromControlledLoad" type="sr:NoType" minOccurs="0"/>

</xs:sequence>

<xs:attribute name="auxiliaryControllerN" type="sr:range\_1\_5" use="required"/>

</xs:complexType>

<xs:complexType name="SignedPreCommand">

<xs:complexContent>

<xs:extension base="sr:FutureDatedAbstractType">

<xs:sequence>

<xs:element name="GBCSPayload" type="xs:base64Binary"/>

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

<xs:simpleType name="UPRN">

<xs:restriction base="xs:positiveInteger">

<xs:totalDigits value="12"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="PostCode">

<xs:restriction base="xs:string">

<xs:minLength value="6"/>

<xs:maxLength value="8"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="AddressIdentifier">

<xs:restriction base="xs:string">

<xs:maxLength value="30"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="CSPRegion">

<xs:restriction base="xs:string">

<xs:enumeration value="North"/>

<xs:enumeration value="Central"/>

<xs:enumeration value="South"/>

<xs:enumeration value="Unknown"/>

<xs:enumeration value="SMETS1"/>

</xs:restriction>

</xs:simpleType>

<xs:complexType name="PropertyFilter">

<xs:sequence>

<xs:element name="PostCode" type="sr:PostCode"> </xs:element>

<xs:element name="AddressIdentifier" type="sr:AddressIdentifier"> </xs:element>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ReadInventory">

<xs:choice>

<xs:element name="UPRN" minOccurs="1" maxOccurs="1" type="sr:UPRN"> </xs:element>

<xs:element name="DeviceID" type="sr:EUI" minOccurs="1" maxOccurs="1"/>

<xs:element name="MPxN" minOccurs="1" maxOccurs="1" type="sr:ImportMPxN"> </xs:element>

<xs:element name="PropertyFilter" type="sr:PropertyFilter"/>

</xs:choice>

</xs:complexType>

<xs:complexType name="Request">

<xs:sequence>

<xs:element name="Header">

<xs:complexType>

<xs:sequence>

<xs:element name="RequestID" type="sr:RequestIDType" minOccurs="1"

maxOccurs="1"/>

<xs:element minOccurs="0" name="FirstInSequence" type="xs:boolean"/>

<xs:element name="PrecedingServiceRequestID" type="sr:RequestIDType"

minOccurs="0" maxOccurs="1"/>

<xs:element name="CommandVariant" type="sr:CommandVariant" minOccurs="1"

maxOccurs="1"/>

<xs:element name="ServiceReference" type="sr:ServiceReference"/>

<xs:element name="ServiceReferenceVariant" type="sr:ServiceReferenceVariant"

maxOccurs="1"/>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element name="Body">

<xs:complexType>

<xs:choice>

<!-- Service Ref 1.x -->

<xs:element name="UpdateImportTariffPrimaryElement"

type="sr:TariffPrimaryElement"/>

<xs:element name="UpdateImportTariffSecondaryElement"

type="sr:TariffSecondaryElement"/>

<xs:element name="UpdatePricePrimaryElement"

type="sr:UpdatePricePrimaryElement"/>

<xs:element name="UpdatePriceSecondaryElement"

type="sr:UpdatePriceSecondaryElement"/>

<xs:element name="UpdateMeterBalance" type="sr:UpdateMeterBalance"/>

<xs:element name="UpdatePaymentMode" type="sr:UpdatePaymentMode"/>

<xs:element name="ResetTariffBlockCounterMatrix"

type="sr:ResetTariffBlockCounterMatrix"/>

<!-- Service Ref 2.x -->

<xs:element name="UpdatePrepayConfiguration"

type="sr:UpdatePrepayConfiguration"/>

<xs:element name="TopUpDevice" type="sr:TopUpDevice"/>

<xs:element name="UpdateDebt" type="sr:UpdateDebt"/>

<xs:element name="ActivateEmergencyCredit" type="sr:ActivateEmergencyCredit"/>

<!-- Service Ref 3.x -->

<xs:element name="DisplayMessage" type="sr:DisplayMessage"/>

<xs:element name="RestrictAccessForChangeOfTenancy"

type="sr:RestrictAccessForChangeOfTenancy"/>

<xs:element name="ClearEventLog" type="sr:ClearEventLog"/>

<xs:element name="UpdateSupplierName" type="sr:UpdateSupplierName"/>

<xs:element name="DisablePrivacyPIN" type="sr:DisablePrivacyPIN"/>

<!-- Service Ref 4.x -->

<xs:element name="ReadInstantaneousImportRegisters"

type="sr:ReadInstantaneousImportRegisters"/>

<xs:element name="ReadInstantaneousImportTOUMatrices"

type="sr:ReadDataOnDemandOrFutureDated"/>

<xs:element name="ReadInstantaneousImportTOUWithBlocksMatrices"

type="sr:ReadDataOnDemandOrFutureDated"/>

<xs:element name="ReadInstantaneousImportBlockCounters"

type="sr:ReadDataOnDemandOrFutureDated"/>

<xs:element name="ReadInstantaneousExportRegisters"

type="sr:ReadDataOnDemandOrFutureDated"/>

<xs:element name="ReadInstantaneousPrepayValues"

type="sr:ReadDataOnDemandOrFutureDated"/>

<xs:element name="RetrieveCoMOrTariffTriggeredBillingDataLog"

type="sr:ReadLogFutureDatableAndURPCredentials"/>

<xs:element name="RetrieveBillingCalendarTriggeredBillingDataLog"

type="sr:ReadLogFutureDatableAndURPCredentials"/>

<xs:element name="RetrieveBillingDataLogDebtPayments"

type="sr:ReadLogFutureDatable"/>

<xs:element name="RetrieveBillingDataLogPrepaymentCredits"

type="sr:ReadLogFutureDatable"/>

<xs:element name="RetrieveImportDailyReadLog"

type="sr:ReadLogFutureDatableAndURPCredentials"/>

<xs:element name="RetrieveExportDailyReadLog" type="sr:ReadLogFutureDatable"/>

<xs:element name="ReadActiveImportProfileData"

type="sr:ReadLogFutureDatableAndURPCredentials"/>

<xs:element name="ReadReactiveImportProfileData"

type="sr:ReadLogFutureDatable"/>

<xs:element name="ReadExportProfileData" type="sr:ReadLogFutureDatable"/>

<xs:element name="ReadNetworkData"

type="sr:ReadLogFutureDatableAndURPCredentials"/>

<xs:element name="ReadTariffPrimaryElement" type="sr:ReadDataOnDemand"/>

<xs:element name="ReadTariffSecondaryElement" type="sr:ReadDataOnDemand"/>

<xs:element name="ReadMaximumDemandImportRegisters"

type="sr:ReadDataOnDemandOrFutureDated"/>

<xs:element name="ReadMaximumDemandExportRegisters"

type="sr:ReadDataOnDemandOrFutureDated"/>

<xs:element name="ReadPrepaymentConfiguration"

type="sr:ReadDataOnDemandOrFutureDated"/>

<xs:element name="ReadPrepaymentDailyReadLog"

type="sr:ReadLogFutureDatableAndURPCredentials"/>

<xs:element name="ReadLoadLimitData" type="sr:ReadDataOnDemandOrFutureDated"/>

<xs:element name="ReadActivePowerImport" type="sr:ReadDataOnDemand"/>

<xs:element name="RetrieveDailyConsumptionLog"

type="sr:ReadLogFutureDatableAndURPCredentials"/>

<xs:element name="ReadMeterBalance" type="sr:ReadDataOnDemandOrFutureDated"/>

<!-- Service Ref 5.x -->

<xs:element name="CreateSchedule" type="sr:DSPSchedule"/>

<xs:element name="ReadSchedule" type="sr:ReadSchedule"/>

<xs:element name="DeleteSchedule" type="sr:DeleteSchedule"/>

<!-- Service Ref 6.x -->

<xs:element name="ReadDeviceConfigurationVoltage" type="sr:ReadDataOnDemand"/>

<xs:element name="ReadDeviceConfigurationRandomisation"

type="sr:ReadDataOnDemand"/>

<xs:element name="ReadDeviceConfigurationBillingCalendar"

type="sr:ReadDataOnDemand"/>

<xs:element name="ReadDeviceConfigurationIdentityExcMPxN"

type="sr:ReadDataOnDemand"/>

<xs:element name="ReadDeviceConfigurationInstantaneousPowerThresholds"

type="sr:ReadDataOnDemand"/>

<xs:element name="ReadDeviceConfigurationMPxN" type="sr:ReadDataOnDemand"/>

<xs:element name="ReadDeviceConfigurationGas" type="sr:ReadDataOnDemand"/>

<xs:element name="ReadDeviceConfigurationPaymentMode"

type="sr:ReadDataOnDemand"/>

<xs:element name="ReadDeviceConfigurationEventAndAlertBehaviours"

type="sr:ReadDataOnDemand"/>

<xs:element name="UpdateDeviceConfigurationLoadLimitingGeneralSettings"

type="sr:UpdateDeviceConfigurationLoadLimitingGeneralSettings"/>

<xs:element name="UpdateDeviceConfigurationLoadLimitingCounterReset"

type="sr:UpdateDeviceConfigurationLoadLimitingCounterReset"/>

<xs:element name="UpdateDeviceConfigurationVoltage"

type="sr:UpdateDeviceConfigurationVoltage"/>

<xs:element name="UpdateDeviceConfigurationGasConversion"

type="sr:UpdateDeviceConfigurationGasConversion"/>

<xs:element name="UpdateDeviceConfigurationGasFlow"

type="sr:UpdateDeviceConfigurationGasFlow"/>

<xs:element name="UpdateDeviceConfigurationBillingCalendar"

type="sr:BillingCalendar"/>

<xs:element name="SynchroniseClock" type="sr:SynchroniseClock"/>

<xs:element name="UpdateDeviceConfigurationInstantaneousPowerThreshold"

type="sr:UpdateDeviceConfigurationInstantaneousPowerThreshold"/>

<xs:element name="ReadEventOrSecurityLog" type="sr:ReadEventOrSecurityLog"/>

<xs:element name="UpdateDeviceConfigurationALCDescriptions"

type="sr:UpdateDeviceConfigurationALCDescriptions"/>

<xs:element name="UpdateDeviceConfigurationALCScheduler"

type="sr:UpdateDeviceConfigurationALCScheduler"/>

<xs:element name="UpdateDeviceConfigurationAuxiliaryControllerScheduler"

type="sr:UpdateDeviceConfigurationAuxiliaryControllerScheduler"/>

<xs:element name="UpdateSecurityCredentialsKRP"

type="sr:UpdateSecurityCredentialsKRP"/>

<xs:element name="UpdateSecurityCredentialsDevice"

type="sr:UpdateSecurityCredentialsDevice"/>

<xs:element name="IssueSecurityCredentials"

type="sr:IssueSecurityCredentials"/>

<xs:element name="SetMaximumDemandConfigurableTimePeriod"

type="sr:SetMaximumDemandConfigurableTimePeriod"/>

<xs:element name="ResetMaximumDemandRegisters"

type="sr:ResetMaximumDemandRegisters"/>

<xs:element name="SetDeviceConfigurationImportMPxN"

type="sr:SetDeviceConfigurationImportMPxN"/>

<xs:element name="SetDeviceConfigurationExportMPAN"

type="sr:SetDeviceConfiguratinExportMPAN"/>

<xs:element name="RequestHandoverOfDCCControlledDevice"

type="sr:RequestHandoverOfDCCControlledDevice"/>

<xs:element name="ConfigureAlertBehaviour" type="sr:ConfigureAlertBehaviour"/>

<xs:element name="UpdateSecurityCredentialsCoS"

type="sr:UpdateSecurityCredentialsCoS"/>

<xs:element name="RetrieveDeviceSecurityCredentialsKRP"

type="sr:RetrieveDeviceSecurityCredentialsKRP"/>

<xs:element name="RetrieveDeviceSecurityCredentialsDevice"

type="sr:RetrieveDeviceSecurityCredentialsDevice"/>

<xs:element name="SetElectricitySupplyTamperState"

type="sr:SetElectricitySupplyTamperState"/>

<xs:element

name="UpdateDeviceConfigurationDailyResettingOfTariffBlockCounterMatrix"

type="sr:UpdateDeviceConfigurationDailyResettingOfTariffBlockCounterMatrix"/>

<xs:element name="UpdateDeviceConfigurationRMSVoltageCounterReset"

type="sr:UpdateDeviceConfigurationRMSVoltageCR"/>

<xs:element name="SetCHFSubGHzConfiguration" type="sr:SubGHzConfiguration"/>

<xs:element name="RequestCHFSubGHzChannelScan"

type="sr:RequestCHFSubGHzChannelScan"/>

<xs:element name="ReadCHFSubGHzConfiguration"

type="sr:ReadCHFSubGHzConfiguration"/>

<xs:element name="ReadCHFSubGHzChannel" type="sr:ReadCHFSubGHzChannel"/>

<xs:element name="ReadCHFSubGHzChannelLog" type="sr:ReadCHFSubGHzChannelLog"/>

<!-- Service Ref 7.x -->

<xs:element name="EnableSupply" type="sr:EnableSupply"/>

<xs:element name="DisableSupply" type="sr:DisableSupply"/>

<xs:element name="ArmSupply" type="sr:ArmSupply"/>

<xs:element name="ReadSupplyStatus" type="sr:ReadDataOnDemand"/>

<xs:element name="ActivateAuxiliaryLoad" type="sr:ActivateAuxiliaryLoad"/>

<xs:element name="DeactivateAuxiliaryLoad" type="sr:DeactivateAuxiliaryLoad"/>

<xs:element name="ReadALCSData" type="sr:ReadALCSData"/>

<xs:element name="ResetAuxiliaryLoad" type="sr:ResetAuxiliaryLoad"/>

<xs:element name="AddAuxiliaryLoadToBoostButton"

type="sr:AddAuxiliaryLoadToBoostButton"/>

<xs:element name="RemoveAuxiliaryLoadFromBoostButton"

type="sr:RemoveAuxiliaryLoadFromBoostButton"/>

<xs:element name="ReadBoostButtonDetails" type="sr:ReadLogFutureDatable"/>

<xs:element name="SetRandomisedOffsetLimit"

type="sr:SetRandomisedOffsetLimit"/>

<xs:element name="SetAuxiliaryControllerState"

type="sr:SetAuxiliaryControllerState"/>

<xs:element name="ReadAuxiliaryControllerConfigurationData"

type="sr:ReadAuxiliaryControllerConfigurationData"/>

<xs:element name="ReadAuxiliaryControllerOperationalData"

type="sr:ReadAuxiliaryControllerOperationalData"/>

<xs:element name="LimitAPCLevel" type="sr:LimitAPCLevel"/>

<!-- Service Ref 8.x -->

<xs:element name="CommissionDeviceSynchroniseClock"

type="sr:SynchroniseClock"/>

<xs:element name="ReadInventory" type="sr:ReadInventory"/>

<xs:element name="DecommissionDevice" type="sr:DecommissionDevice"/>

<xs:element name="UpdateInventory" type="sr:UpdateInventory"/>

<xs:element name="ServiceOptOut" type="sr:ServiceOptOut"/>

<xs:element name="ServiceOptIn" type="sr:ServiceOptIn"/>

<xs:element name="JoinServiceCritical" type="sr:JoinOrUnjoinDevice"/>

<xs:element name="JoinServiceNonCritical" type="sr:JoinOrUnjoinDevice"/>

<xs:element name="UnjoinServiceCritical" type="sr:JoinOrUnjoinDevice"/>

<xs:element name="UnjoinServiceNonCritical" type="sr:JoinOrUnjoinDevice"/>

<xs:element name="ReadDeviceLog" type="sr:ReadDeviceLog"/>

<xs:element name="UpdateHANDeviceLog" type="sr:UpdateHANDeviceLog"/>

<xs:element name="RestoreHANDeviceLog" type="sr:RestoreHANDeviceLog"/>

<xs:element name="RestoreGPFDeviceLog" type="sr:RestoreGPFDeviceLog"/>

<xs:element name="ReturnLocalCommandResponse"

type="sr:ReturnLocalCommandResponse"/>

<xs:element name="CHFInstallSuccessSMWAN" type="sr:CHFInstallSuccessSMWAN"/>

<xs:element name="CHFInstallSuccessNoSMWAN"

type="sr:CHFInstallSuccessNoSMWAN"/>

<xs:element name="CHFFaultReturn" type="sr:CHFFaultReturn"/>

<xs:element name="CHFNoFaultReturn" type="sr:CHFNoFaultReturn"/>

<!-- Service Ref 9.x -->

<xs:element name="RequestCustomerIdentificationNumber"

type="sr:RequestCustomerIdentificationNumber"/>

<!-- Service Ref 11.x -->

<xs:element name="UpdateFirmware" type="sr:UpdateFirmware"/>

<xs:element name="ReadFirmwareVersion" type="sr:ReadFirmwareVersion"/>

<xs:element name="ActivateFirmware" type="sr:ActivateFirmware"/>

<xs:element name="UpdatePPMIDFirmware" type="sr:UpdatePPMIDFirmware"/>

<!-- Service Ref 12.x -->

<xs:element name="RequestWANMatrix" type="sr:RequestWANMatrix"/>

<xs:element name="DevicePrenotification" type="sr:DevicePrenotification"/>

<!-- Service Ref 14.x -->

<xs:element name="RecordNetworkDataGAS" type="sr:RecordNetworkDataGAS"/>

<!-- Signed Pre-Command -->

<xs:element name="SignedPreCommand" type="sr:SignedPreCommand"/>

</xs:choice>

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</xs:restriction>

</xs:simpleType>

<!-- Responses -->

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<xs:element name="Request" type="sr:RequestWANMatrix"> </xs:element>

<xs:element name="CSPRegion" type="sr:CSPRegion"> </xs:element>

<xs:element name="CoverageAvailability" type="xs:boolean"/>

<xs:element minOccurs="0" name="AnticipatedCoverageDate" type="xs:date"> </xs:element>

<xs:element name="WANTechnology" type="sr:WANTechnologyType" maxOccurs="1" minOccurs="1"/>

<xs:element name="ConnectivityLikelihood">

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<xs:restriction base="xs:string">

<xs:enumeration value="High"/>

<xs:enumeration value="Medium"/>

<xs:enumeration value="Low"/>

</xs:restriction>

</xs:simpleType>

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<xs:element minOccurs="0" name="AuxiliaryEquipmentRequired">

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<xs:maxLength value="50"/>

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<xs:element minOccurs="0" name="AdditionalInformation">

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<xs:maxLength value="250"/>

</xs:restriction>

</xs:simpleType>

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</xs:sequence>

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<xs:complexType name="DSPUpdateFirmwareWarning">

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<xs:element maxOccurs="1" name="InvalidDeviceIDList" minOccurs="0"

type="sr:DeviceIDList"> </xs:element>

<xs:element maxOccurs="1" name="NotCommissionedDeviceIDList" minOccurs="0"

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<xs:element maxOccurs="1" name="NotApplicableFirmwareDeviceIDList" minOccurs="0"

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<xs:element maxOccurs="1" name="OtherRequestInProgressList" minOccurs="0"

type="sr:DeviceIDList"> </xs:element>

<xs:element maxOccurs="1" name="InvalidGBCSVersionList" minOccurs="0"

type="sr:DeviceIDList"> </xs:element>

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<xs:complexType name="DSPUpdatePPMIDFirmwareWarning">

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<xs:element maxOccurs="1" name="NotCommissionedDeviceIDList" minOccurs="0"

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<xs:element name="DSPScheduleDetails" type="sr:DSPSchedule"/>

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<xs:element maxOccurs="1" minOccurs="0" name="ScheduleExecutionStartTime" type="xs:time"/>

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type="sr:Certificate"/>

<xs:element name="DSPScheduledServiceReference" type="sr:DSPScheduledServiceReference"/>

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type="sr:DSPScheduledServiceReferenceVariant"/>

<xs:element maxOccurs="1" minOccurs="1" name="DeviceID" type="sr:EUI"/>

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<xs:element name="DSPRetrieveImportDailyReadLog" type="sr:ReadLogPeriodOffset"/>

<xs:element name="DSPRetrieveExportDailyReadLog" type="sr:ReadLogPeriodOffset"/>

<xs:element name="DSPReadActiveImportProfileData" type="sr:ReadLogPeriodOffset"/>

<xs:element name="DSPReadReactiveImportProfileData" type="sr:ReadLogPeriodOffset"/>

<xs:element name="DSPReadExportProfileData" type="sr:ReadLogPeriodOffset"/>

<xs:element name="DSPReadNetworkData" type="sr:ReadLogPeriodOffset"/>

<xs:element name="DSPReadMaximumDemandImportRegisters" type="sr:DSPReadData"/>

<xs:element name="DSPReadMaximumDemandExportRegisters" type="sr:DSPReadData"/>

<xs:element name="DSPReadPrepaymentDailyReadLog" type="sr:ReadLogPeriodOffset"/>

<xs:element name="DSPReadLoadLimitData" type="sr:DSPReadData"/>

<xs:element name="DSPReadActivePowerImport" type="sr:DSPReadData"/>

<xs:element name="DSPRetrieveDailyConsumptionLog" type="sr:ReadLogPeriodOffset"/>

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<xs:element name="DeviceManufacturer" type="sr:DeviceManufacturer"/>

<xs:element name="DeviceModel" type="sr:DeviceModel"/>

<xs:element minOccurs="0" name="SMETSCHTSVersion" type="sr:SMETSCHTSVersion"> </xs:element>

<xs:element maxOccurs="1" minOccurs="0" name="DeviceFirmwareVersion"

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type="sr:FirmwareVersionStatus"/>

<xs:element minOccurs="0" name="CPLStatus" type="sr:CPLStatus"/>

<xs:element name="DateCommissioned" minOccurs="0" type="xs:date"> </xs:element>

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<xs:restriction base="xs:string">

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<xs:complexType name="DSPInventory">

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<xs:element maxOccurs="1" minOccurs="1" name="DeviceID" type="sr:EUI"/>

<xs:element maxOccurs="1" minOccurs="0"

name="DSPBrokerSecurityCredentialsDigitalSigning" type="sr:Certificate"/>

<xs:element maxOccurs="1" minOccurs="1" name="DSPBrokerSecurityCredentialsKeyAgreement"

type="sr:Certificate"/>

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</xs:complexType>

<xs:complexType name="PreCommand">

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<xs:element name="GBCSVersion" type="xs:string"/>

<xs:element name="GBCSPayload" type="xs:base64Binary"/>

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</xs:complexType>

<xs:complexType name="CINMessage">

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<xs:element name="AlertCode" type="xs:hexBinary"> </xs:element>

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maxOccurs="1"/>

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<xs:element name="MPxN" type="sr:ImportMPxN"> </xs:element>

</xs:sequence>

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<xs:complexType name="DeviceStatusChangeEvent">

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type="sr:MeterDecommissioningOrWithdrawal"/>

<xs:element name="DeviceRemovedFromInventory" type="sr:DeviceRemovedFromInventory"/>

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type="sr:RecoveryCompleteACBCredentials"/>

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<xs:element name="MeterMPxNs" type="sr:MeterMPxNs"/>

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<xs:element name="ImportMPxN" type="sr:ImportMPxN"> </xs:element>

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</xs:sequence>

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<xs:complexType name="CommandFailure">

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</xs:sequence>

</xs:complexType>

<xs:complexType name="DeviceChangeOfSupplier">

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<xs:element name="MPxNs" type="sr:MeterMPxNs"/>

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<xs:complexType name="DeviceLogRestored">

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<xs:element name="RestoredDate" type="xs:date"/>

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<xs:element name="CHFDeviceLog" type="sr:CHFGPFDeviceIDs"/>

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</xs:sequence>

</xs:complexType>

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<xs:sequence>

<xs:element name="RequestID" type="sr:RequestIDType"/>

<xs:element name="QuarantineEventRef">

<xs:simpleType>

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<xs:element name="ADAttributeLimitsBreach" type="sr:ADBreach"/>

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</xs:complexType>

<xs:complexType name="LimitedDutyCycleActionTaken">

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<xs:element name="DeviceIDToSuspend" type="sr:EUI"/>

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</xs:complexType>

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<xs:element name="Channel60" type="sr:NoType"/>

<xs:element name="Channel61" type="sr:NoType"/>

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<xs:enumeration value="GSMERequest"/>

<xs:enumeration value="GSMEMissedItsCurfew"/>

<xs:enumeration value="GSMEMissingForTheLastDay"/>

<xs:enumeration value="CHDetectedMessageFailureProblems"/>

<xs:enumeration value="CHDetectedMessageRetryProblems"/>

<xs:enumeration value="SubGHzNon-GSMEDeviceRequest"/>

<xs:enumeration value="SMHANFormation"/>

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<xs:complexType name="SubGHzChannelChanged">

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<xs:element name="OperatingSubGHzChannel" type="sr:OperatingSubGHzChannel"/>

<xs:element name="ScanTrigger" type="sr:ScanTrigger"> </xs:element>

</xs:sequence>

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<xs:complexType name="SubGHzChannelScanRequestAssessmentOutcome">

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<xs:element name="StatusCode">

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<xs:restriction base="xs:string">

<xs:enumeration value="ScanRequestAccepted"/>

<xs:enumeration value="HHTConnected"/>

<xs:enumeration value="DutyCycleUsageIsTooHigh"/>

<xs:enumeration value="JoiningIsCurrentlyPermitted"/>

<xs:enumeration value="GSMEOTADistributionUnderway"/>

<xs:enumeration value="TooManyScansToday"/>

<xs:enumeration value="TooManyCommandsToday"/>

<xs:enumeration value="TooManyScansThisWeek"/>

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<xs:enumeration value="Alert"/>

</xs:restriction>

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<xs:complexType name="MessageDiscarded">

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<xs:element name="RequestID" type="sr:RequestIDType"/>

<xs:element name="CRAFlag" type="sr:CRAFlag"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="DeviceNotJoinedSubGHzSMHAN">

<xs:sequence>

<xs:element name="DeviceID" type="sr:EUI"/>

<xs:element name="DeviceType" type="sr:DeviceType" minOccurs="0"/>

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type="xs:hexBinary"/>

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<xs:element name="SubGHzChannelChanged" type="sr:SubGHzChannelChanged"/>

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type="sr:SubGHzChannelScanRequestAssessmentOutcome"/>

<xs:element name="SubGHzConfigurationChanged" type="sr:SubGHzConfiguration"/>

<xs:element name="MessageDiscardedDueToDutyCycleManagement"

type="sr:MessageDiscarded"/>

<xs:element name="NoMoreSubGHzDeviceCapacity" type="sr:DeviceNotJoinedSubGHzSMHAN"/>

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<xs:complexType name="SMETS1CHFirmwareNotification">

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<xs:element name="FirmwareVersionUpdateStatus">

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<xs:enumeration value="UpdateRequested"/>

<xs:enumeration value="ActivationSuccessful"/>

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<xs:complexType name="ALCSHCALCSConfigurationChange">

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<xs:element name="CommsHubDeviceID" type="sr:EUI"/>

<xs:element name="TargetDeviceID" type="sr:EUI"/>

<xs:element name="FirmwareVersion" type="sr:FirmwareVersion"/>

<xs:element name="TimeStamp" type="xs:dateTime"/>

<xs:element name="CommsHubTransferStatus">

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<xs:restriction base="xs:string">

<xs:enumeration value="Success"/>

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<xs:element name="FirmwareVersion" type="sr:FirmwareVersion"/>

<xs:element name="TransferResponseCode">

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<xs:restriction base="xs:string">

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<xs:enumeration value="FirmwareImageDiscarded"/>

<xs:enumeration value="HardwareVersionMismatch"/>

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<xs:element name="ECoSAlertCode" type="xs:string" minOccurs="1"/>

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<xs:element name="AdditionalInformation" type="xs:string" minOccurs="0"/>

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<xs:complexType name="CommsHubFirmwareActivation">

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<xs:element name="DeviceID" type="sr:EUI"/>

<xs:element name="FirmwareVersion" type="sr:FirmwareVersion"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="CoSCertificateAlert">

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type="sr:ServiceResponseVersionMismatch"/>

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<xs:element name="ServiceUserDUISVersion" type="xs:string"/>

</xs:sequence>

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<xs:complexType name="FirmwareVersionMismatch">

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<xs:element name="DeviceType" type="sr:DeviceType"/>

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<xs:element name="FirmwareVersionDevice" type="sr:FirmwareVersion"/>

</xs:sequence>

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<xs:complexType name="SecurityCredentialsUpdated">

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<xs:element name="RemotePartySeqNumberChange" minOccurs="0"

type="sr:RemotePartySeqNumberChange"/>

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<xs:element name="RemotePartyPrepaymentTopUpFloorSeqNumber"

type="sr:floorSequenceNumber" minOccurs="0"/>

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<xs:restriction base="xs:string">

<xs:enumeration value="DigitalSigning"/>

<xs:enumeration value="KeyAgreement"/>

<xs:enumeration value="KeyAgreementTopUp"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

<xs:element name="CertificateHash" type="sr:SHA1"/>

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<xs:element name="NetworkOperatorCertificateType" maxOccurs="2" minOccurs="0">

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<xs:restriction base="xs:string">

<xs:enumeration value="DigitalSigning"/>

<xs:enumeration value="KeyAgreement"/>

</xs:restriction>

</xs:simpleType>

</xs:element>

</xs:sequence>

</xs:complexType>

<xs:complexType name="RecoveryComplete"/>

<xs:complexType name="ResponseMessage">

<xs:sequence>

<xs:element name="ServiceReference" type="sr:ServiceReference"/>

<xs:element maxOccurs="1" minOccurs="1" name="ServiceReferenceVariant"

type="sr:ServiceReferenceVariant"/>

<xs:choice minOccurs="0">

<xs:element name="CINMessage" type="sr:CINMessage"/>

<xs:element name="DSPInventory" type="sr:DSPInventory"/>

<xs:element name="DSPOptIn" type="sr:DSPOptIn"/>

<xs:element name="DSPSchedulesRead" type="sr:DSPSchedulesRead" maxOccurs="1"/>

<xs:element name="DSPScheduledMessage" type="sr:DSPScheduledMessage"/>

<xs:element name="DSPScheduleID" type="sr:scheduleID"/>

<xs:element name="DSPUpdateFirmwareWarning" type="sr:DSPUpdateFirmwareWarning"/>

<xs:element name="DSPUpdatePPMIDFirmwareWarning"

type="sr:DSPUpdatePPMIDFirmwareWarning"/>

<xs:element name="DSPWANMatrix" type="sr:DSPWANMatrix"/>

<xs:element name="FutureDatedDeviceAlertMessage"

type="sr:FutureDatedDeviceAlertMessage"/>

<xs:element name="GBCSPayload" type="xs:base64Binary"/>

<xs:element name="LocalCommand" type="sr:LocalCommand"/>

<xs:element name="PreCommand" type="sr:PreCommand"/>

</xs:choice>

</xs:sequence>

</xs:complexType>

<xs:complexType name="DCCAlert">

<xs:choice>

<xs:element name="PowerOutageEvent" type="sr:PowerOutageEvent"/>

<xs:element name="DeviceStatusChangeEvent" type="sr:DeviceStatusChangeEvent"/>

<xs:element name="DSPScheduleRemoval" type="sr:DSPScheduleRemoval"/>

<xs:element name="CommandFailure" type="sr:CommandFailure"/>

<xs:element name="FirmwareDistributionFailure" type="sr:FirmwareDistributionFailure"/>

<xs:element name="UpdateHANDeviceLogResult" type="sr:UpdateHANDeviceLogResult"/>

<xs:element name="ChangeOfSupplier" type="sr:ChangeOfSupplier"/>

<xs:element name="DeviceLogRestored" type="sr:DeviceLogRestored"/>

<xs:element name="PPMIDAlert" type="sr:PPMIDAlert"/>

<xs:element name="SecurityCredentialsUpdated" type="sr:SecurityCredentialsUpdated"/>

<xs:element name="PPMIDRemoval" type="sr:PPMIDRemoval"/>

<xs:element name="QuarantinedRequest" type="sr:QuarantinedRequest"/>

<xs:element name="FirmwareVersionMismatch" type="sr:FirmwareVersionMismatch"/>

<xs:element name="DualBandCHAlert" type="sr:DualBandCHAlert"/>

<xs:element name="S1SPAlertDSP" type="sr:S1SPAlertDSP"/>

<xs:element name="SMETS1CHFirmwareNotification" type="sr:SMETS1CHFirmwareNotification"/>

<xs:element name="ALCSHCALCSConfigurationChange" type="sr:ALCSHCALCSConfigurationChange"/>

<xs:element name="FirmwareUpgradeRequested" type="sr:FirmwareUpgradeRequested"/>

<xs:element name="CSPFirmwareDeliveryStatus" type="sr:CSPFirmwareDeliveryStatus"/>

<xs:element name="CommsHubAlert" type="sr:CommsHubAlert"/>

<xs:element name="ECoSAlert" type="sr:ECoSAlert"/>

<xs:element name="CommsHubFirmwareActivation" type="sr:CommsHubFirmwareActivation"/>

<xs:element name="CoSCertificateAlert" type="sr:CoSCertificateAlert"/>

<xs:element name="DUISVersionMismatch" type="sr:DUISVersionMismatch"/>

</xs:choice>

</xs:complexType>

<xs:complexType name="DCCAlertMessage">

<xs:sequence>

<xs:element name="DCCAlertCode">

<xs:simpleType>

<xs:restriction base="xs:string">

<xs:enumeration value="AD1"/>

<xs:enumeration value="N1"/>

<xs:enumeration value="N2"/>

<xs:enumeration value="N3"/>

<xs:enumeration value="N4"/>

<xs:enumeration value="N5"/>

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<xs:enumeration value="N61"/>

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<xs:enumeration value="N65"/>

<xs:enumeration value="N999"/>

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</xs:simpleType>

</xs:element>

<xs:element name="ThrottledAlertSequenceId" type="xs:unsignedInt" minOccurs="0"

maxOccurs="1"/>

<xs:element name="ThrottledAlertCount" type="xs:unsignedInt" minOccurs="0" maxOccurs="1"/>

<xs:element name="DCCAlert" type="sr:DCCAlert"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="Response">

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<xs:element name="Header">

<xs:complexType>

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<xs:element maxOccurs="1" name="RequestID" type="sr:RequestIDType"

minOccurs="0"/>

<xs:element maxOccurs="1" name="ResponseID" type="sr:ResponseIDType"

minOccurs="0"/>

<xs:element name="ResponseCode" type="sr:ResponseCode"/>

<xs:element name="ResponseDateTime" type="xs:dateTime"/>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element name="Body">

<xs:complexType>

<xs:choice minOccurs="1">

<xs:element name="ResponseMessage" type="sr:ResponseMessage"> </xs:element>

<xs:element name="DeviceAlertMessage" type="sr:DeviceAlertMessage"/>

<xs:element name="DCCAlertMessage" type="sr:DCCAlertMessage"/>

<xs:element name="SMETS1ResponseMessage" type="sr:SMETS1ResponseMessage"/>

</xs:choice>

</xs:complexType>

</xs:element>

<xs:element ref="ds:Signature" minOccurs="0"/>

</xs:sequence>

<xs:attribute name="schemaVersion" type="xs:decimal" use="required"/>

</xs:complexType>

<!-- SMETS1 Definitions -->

<xs:complexType name="SMETS1SignedResponse">

<xs:sequence>

<xs:element name="SMETS1Response" type="sr:SMETS1ResponseType"/>

<xs:element ref="ds:Signature"/>

</xs:sequence>

<xs:attribute name="schemaVersion" type="xs:decimal" use="required"/>

</xs:complexType>

<xs:complexType name="SMETS1ResponseType">

<xs:sequence>

<xs:element name="Header" type="ra:HeaderType"/>

<xs:element name="Body">

<xs:complexType>

<xs:choice>

<xs:element name="ResponseMessage" type="ra:ResponsePayload"/>

<xs:element name="DeviceAlertMessage" type="ra:DeviceAlertMessageType"/>

</xs:choice>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:schema>