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**Universal Mobile Telecommunications System (UMTS);
LTE;
Telecommunication management;
Subscription Management (SuM)
Network Resource Model (NRM)
Integration Reference Point (IRP);
Solution Set (SS) definitions
(3GPP TS 28.753 version 11.1.0 Release 11)**



Reference

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Foreword

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Introduction

The present document is part of a TS-family covering the 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Telecommunication management; as identified below:

- TS 32.140: Subscription Management (SuM) requirements.
- TS 32.141: Subscription Management (SuM) architecture.
- TS 28.751: Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): Requirements.
- TS 28.752: Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): Information Service (IS).
- TS 28.753: Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): Solution Set (SS) definitions.**

Subscription Management (SuM) is a feature that permits Service Providers, Value Added Service Providers and Mobile Operators to provision services for a specific subscriber. The feature is necessary to allow Service Providers and Operators to provision, control, monitor, and bill the configuration of services that they offer to their subscribers. SuM focuses on the OAM processes to manage subscription information. The overall SuM requirements and architecture are detailed in 3GPP TS 32.140 [2] and 3GPP TS 32.141 [3].

1 Scope

The present document is part of an Integration Reference Point (IRP) named Subscription Management (SuM) Network Resource Model (NRM) IRP, through which an IRPAgent can communicate configuration management information to one or several IRPManagers concerning SuM resources. The SuM NRM IRP comprises a set of specifications defining Requirements, a protocol neutral Information Service and one or more Solution Set(s).

The present document specifies the Solution Sets for the SuM NRM IRP.

This specification is related to 3GPP TS 28.752 V11.0.X.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
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 - For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.
- [1] 3GPP TS 32.150: "Telecommunication management; Integration Reference Point (IRP) Concept and definitions".
 - [2] 3GPP TS 32.140: "Telecommunication management; Subscription Management (SuM) requirements".
 - [3] 3GPP TS 32.141: "Telecommunication management; Subscription Management (SuM) architecture".
 - [4] 3GPP TS 28.751: "Telecommunication management; Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP); Requirements".
 - [5] 3GPP TS 28.752: "Telecommunication management; Subscription Management Network Resource Model (NRM) Integration Reference Point (IRP): Information Service (IS)".
 - [6] 3GPP TS 32.101: "Telecommunication management; Principles and high level requirements".
 - [7] 3GPP TS 32.102: "Telecommunication management; Architecture".
 - [8] 3GPP TS 32.616: "Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Solution Set (SS) definitions".
 - [9] 3GPP TS 32.300: "Telecommunication management; Configuration Management (CM); Name convention for Managed Objects".
 - [10] W3C REC-xml11-20060816: "Extensible Markup Language (XML) 1.1 (Second Edition)".
 - [11] W3C XML Schema Definition Language (XSD) 1.1 Part 1: Structures.
 - [12] W3C XML Schema Definition Language (XSD) 1.1 Part 2: Datatypes.
 - [13] W3C REC-xml-names-20060816: "Namespaces in XML 1.1 (Second Edition)".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions in 3GPP TS 32.101 [6], TS 32.102 [7], TS 32.140 [2], TS 32.141 [3], TS 28.751 [4] and TS 28.752 [5] apply.

3.2 Abbreviations

For the purposes of the present document, the abbreviations in 3GPP TS 32.101 [6], TS 32.102 [7], TS 32.140 [2], TS 32.141 [3], TS 28.751 [4] and TS 28.752 [5] apply.

4 Solution Set Definitions

This specification defines the following 3GPP SuM NRM IRP Solution Set Definitions:

- 3GPP SuM NRM IRP XML Definitions (Annex A)

CORBA Solution Set is not supported.

Annex A (normative): XML Definitions

This annex contains the XML Definitions for the SuM NRM IRP as it applies to Itf-N, in accordance with SuM NRM IRP Information Service (TS 28.752 [5]).

The XML file formats are based on XML [10], XML Schema [11] [12] and XML Namespace [13] standards.

A.1 Architectural features

The overall architectural feature of Subscription Management (SuM) NRM is specified in 3GPP TS 28.752 [5]. This clause specifies features that are specific to the Schema definitions.

A.1.1 Syntax for Distinguished Names

The syntax of a Distinguished Name is defined in 3GPP TS 32.300 [9].

A.2 Mapping

A.2.1 General mapping

An IOC maps to an XML element of the same name as the IOC's name in the IS. An IOC attribute maps to a sub-element of the corresponding IOC's XML element, and the name of this sub-element is the same as the attribute's name in the IS.

A.2.2 Information Object Class (IOC) mapping

The mapping is not present in the current version of this specification.

A.3 Solution Set definitions

A.3.1 XML definition structure

The overall description of the file format of configuration data XML files is provided by 3GPP TS 32.616 [8].

Annex A.3.3 of the present document defines the NRM-specific XML schema `sumNrm.xsd` for the Subscription Management IRP NRM defined in 3GPP TS 28.752 [5].

XML schema `sumNrm.xsd` explicitly declares NRM-specific XML element types for the related NRM.

The definition of those NRM-specific XML element types complies with the generic mapping rules defined in 3GPP TS 32.616 [8].

A.3.2 Graphical Representation

The graphical representation is not present in the current version of this specification.

A.3.3 XML schema "sumNrm.xsd"

```

<?xml version="1.1" encoding="UTF-8"?>

<!--
3GPP TS 28.753 SuM Network Resource Model IRP
SuM NRM-specific XML schema
sumNrm.xsd
-->

<schema
  targetNamespace=
"http://www.3gpp.org/ftp/specs/archive/28_series/28.753#sumNrm"
  elementFormDefault="qualified"
  xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:sn=
"http://www.3gpp.org/ftp/specs/archive/28_series/28.753#sumNrm"
  xmlns:xn=
"http://www.3gpp.org/ftp/specs/archive/28_series/28.623#genericNrm"
>

  <import
    namespace=
"http://www.3gpp.org/ftp/specs/archive/28_series/28.753#genericNrm"
  />

  <!-- SuM Network Resources IRP NRM class associated XML elements -->

  <element
    name="SubscriptionFunction"
    substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass"
  >
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="userLabel"/>
                  <element name="theUser" type="xn:dnList"/>
                  <element name="theSubscriberProfile" type="xn:dnList"/>
                </all>
              </complexType>
            </element>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
  </element>
  <element name="SuMSubscriberProfile" substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="suMSubscriberProfileInfo"/>
                  <element name="theUser" type="xn:dnList"/>
                  <element name="theSubscribedService" type="xn:dnList"/>
                  <element name="theMobileUserData" type="xn:dnList"/>
                </all>
              </complexType>
            </element>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
  </element>
  <element name="MobileUserData" substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>

```

```

    <all>
      <element name="theServiceProfile" type="xn:dnList" />
      <element name="iMSI" type="string" />
      <element name="mSISDN" type="string" />
      <element name="multinumberingMSISDNs" type="sn:multinumberingMSISDNList" />
      <element name="iMEISV" type="string" minOccurs="0" />
    </all>
  </complexType>
</element>
</sequence>
</extension>
</complexContent>
</complexType>
</element>

<element name="SuMUser" substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="theMobileUserData" type="xn:dnList" />
                <element name="theSubscriber" type="xn:dnList" minOccurs="0" />
                <element name="theCredentials" type="xn:dnList" />
                <element name="theServiceProfile" type="xn:dnList" />
                <element name="theIdentity" type="xn:dnList" minOccurs="0" />
              </all>
            </complexType>
          </element>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element name="SuMCredentials" substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="thePublicId" type="xn:dnList" />
                <element name="theServiceProfile" type="xn:dnList" />
                <element name="iMSPrivateUserIdentity" type="string" />
              </all>
            </complexType>
          </element>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element name="SuMService" type="xn:NrmClass" abstract="true"
substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass" />

<element
  name="CSService"
  substitutionGroup="sn:SuMService"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="theContract" minOccurs="0" />
                <element name="networkAccessMode" />
                <element name="basicMSISDNIndicator" minOccurs="0" />
                <element name="mSISDNAlertIndicator" minOccurs="0" />
                <element name="subscriptionRestriction" minOccurs="0" />
                <element name="rSZIlists" minOccurs="0" />
              </all>
            </complexType>
          </element>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

<element name="LSAIdentity" minOccurs="0"/>
<element name="LSAPriority" minOccurs="0"/>
<element name="LSAPreferentialAccessIndicator" minOccurs="0"/>
<element name="LSAActiveModeSupportIndicator" minOccurs="0"/>
<element name="LSAOnlyAccessIndicator" minOccurs="0"/>
<element name="LSAActiveModeIndicator" minOccurs="0"/>
<element name="vPLMNIdentifier" minOccurs="0"/>
<element name="accessRestrictionData" minOccurs="0"/>
<element name="privacyExceptionList" minOccurs="0"/>
<element name="gMLCNumbers" minOccurs="0"/>
<element name="mOLRList" minOccurs="0"/>
<element name="serviceTypes" minOccurs="0"/>
<element name="mobileStationCategory" minOccurs="0"/>
<element name="LMUIIdentifier" minOccurs="0"/>
<element name="subscriberStatus" minOccurs="0"/>
<element name="gsmSCFaddresslistForODB"/>
<element name="provisionOfBearerService"/>
<element name="provisionOfTeleservice"/>
<element name="bCAllocation" minOccurs="0"/>
<element name="barringOfOutgoingCalls" minOccurs="0"/>
<element name="barringOfIncomingCalls" minOccurs="0"/>
<element name="barringOfRoaming" minOccurs="0"/>
<element name="barringOfPremiumRateCalls" minOccurs="0"/>
<element
  name="barringOfSupplementaryServiceManagement"
  minOccurs="0"
/>
<element
  name="barringOfRegistrationOfCallForwarding"
  minOccurs="0"
/>
<element
  name="barringOfInvocationOfCallTransfer"
  minOccurs="0"
/>
<element
  name="operatorDeterminedBarringPLMNspecificData"
  minOccurs="0"
/>
<element name="vGCsGroupMembershipList" minOccurs="0"/>
<element name="vBSGroupMembershipList" minOccurs="0"/>
<element
  name="broadcastCallInitiationAllowedList"
  minOccurs="0"
/>
<element
  name="originatingCAMELSubscriptionInformationOCSI"
  minOccurs="0"
/>
<element
  name="terminatingCAMELSubscriptionInformationTCSI"
  minOccurs="0"
/>
<element
  name="vMSCTerminatingCAMELSubscriptionInformationVTCSI"
  minOccurs="0"
/>
<element
  name="locationInformationSubscriberStateInformation"
  minOccurs="0"
/>
<element
  name="uSSDCAMELSubscriptionInformationUCSI"
  minOccurs="0"
/>
<element name="sSInvocationNotificationSSCSI" minOccurs="0"/>
<element
  name="translationInformationFlagTIFCSI"
  minOccurs="0"
/>
<element
  name="dialledServiceCAMELSubscriptionInformationDCSI"
  minOccurs="0"
/>
<element
  name="uSSDGeneralCAMELServiceInformationUGCSI"
  minOccurs="0"
/>

```

```

    <element
      name="shortMessageServiceCAMELSubscriptionInformationMOSMSCSI"
      minOccurs="0"
    />
    <element
      name="shortMessageServiceCAMELSubscriptionInformationMTSMSCSI"
      minOccurs="0"
    />
    <element
      name="mTSMSCSIVLRNegotiatedCAMELCapabilityHandling"
      minOccurs="0"
    />
    <element name="gsmSCFAddressforCSI" minOccurs="0"/>
    <element name="iSTAlertTimer" minOccurs="0"/>
    <element name="cSAllocationRetentionpriority" minOccurs="0"/>
    <element name="iCSIndicator" minOccurs="0"/>
    <element name="theCSSupplServiceForCS" type="xn:dnList"/>
  </all>
</complexType>
</element>
</sequence>
</extension>
</complexContent>
</complexType>
</element>
<element name="SuMCSSupplService"
  substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="sS-Code"/>
                <element name="provisioningState"/>
                <element name="activationState"/>
                <element name="registrationState" minOccurs="0"/>
                <element name="overrideCategory" minOccurs="0"/>
                <element name="cLIRestrictionOption" minOccurs="0"/>
                <element name="forwarded-toNumber" minOccurs="0"/>
                <element name="forwarded-toSubaddress" minOccurs="0"/>
                <element name="noReplyConditionTimer" minOccurs="0"/>
                <element name="maximumEntitledPriority" minOccurs="0"/>
                <element name="defaultPriority" minOccurs="0"/>
                <element name="nbrUser" minOccurs="0"/>
                <element name="nbrSB" minOccurs="0"/>
              </all>
            </complexType>
          </element>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="GPRSService"
  substitutionGroup="sn:SuMService"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="theContract" minOccurs="0"/>
                <element name="networkAccessMode" minOccurs="0"/>
                <element name="basicMSISDNIndicator" minOccurs="0"/>
                <element name="mSISDNAlertIndicator" minOccurs="0"/>
                <element name="rSZIlists" minOccurs="0"/>
                <element name="LSAIdentity" minOccurs="0"/>
                <element name="LSAPriority" minOccurs="0"/>
                <element name="LSAPreferentialAccessIndicator" minOccurs="0"/>
                <element name="LSAActiveModeSupportIndicator" minOccurs="0"/>
                <element name="LSAOnlyAccessIndicator" minOccurs="0"/>
              </all>
            </complexType>
          </element>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

<element name="lSAActiveModeIndicator" minOccurs="0"/>
<element name="vPLMNIdentifier" minOccurs="0"/>
<element name="accessRestrictionData" minOccurs="0"/>
<element name="privacyExceptionList" minOccurs="0"/>
<element name="gMLCNumbers" minOccurs="0"/>
<element name="mOLRList" minOccurs="0"/>
<element name="serviceTypes" minOccurs="0"/>
<element name="gGSNNumber" minOccurs="0"/>
<element name="provisionofTeleservice" minOccurs="0"/>
<element name="subscriberStatus" minOccurs="0"/>
<element name="transferofSMoption" minOccurs="0"/>
<element
  name="barringofPacketOrientedServices"
  minOccurs="0"
/>
<element name="pDPType" minOccurs="0"/>
<element name="pDPAddress" minOccurs="0"/>
<element name="accessPointName" minOccurs="0"/>
<element name="vPLMNAddressAllowed" minOccurs="0"/>
<element name="qualityofServiceSubscribed" minOccurs="0"/>
<element
  name="pDPContextChargingCharacteristics"
  minOccurs="0"
/>
<element
  name="gPRSCAMELSubscriptionInformationGPRSCSI"
  minOccurs="0"
/>
<element
name="mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI"
  minOccurs="0"
/>
<element
name="mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI"
  minOccurs="0"
/>
<element
  name="mOSMSCSISGSNNegotiatedCAMELCapabilityHandling"
  minOccurs="0"
/>
<element
  name="mTSMSCSISGSNNegotiatedCAMELCapabilityHandling"
  minOccurs="0"
/>
<element
  name="mobilityManagementforGPRSeventnotificationMGCSI"
  minOccurs="0"
/>
<element
  name="mGCSINegotiatedCAMELCapabilityHandling"
  minOccurs="0"
/>
<element name="gsmSCFaddressforCSI" minOccurs="0"/>
<element
  name="subscribedChargingCharacteristics"
  minOccurs="0"
/>
<element name="closedSubscriberGroupInformation" minOccurs="0"/>
<element name="gSMSCFaddresslistForODB" minOccurs="0"/>
<element name="barringOfOutgoingCalls" minOccurs="0"/>
<element name="barringOfRoaming" minOccurs="0"/>
<element name="operatorDeterminedBarringPLMNspecificData" minOccurs="0"/>
<element name="sTNSR" minOccurs="0"/>
<element name="iCSIndicator" minOccurs="0"/>
<element
  name="listofauthorizedvisitednetworkidentifiers"
  minOccurs="0"
/>
<element name="wLANUERemoteIPAddress" minOccurs="0"/>
<element name="staticwLANUERemoteIPAddressList" minOccurs="0"/>
<element name="w-APNBarringTypeList" minOccurs="0"/>
<element name="w-APNChargingDataList" minOccurs="0"/>
<element name="accessDependenceFlag" minOccurs="0"/>
<element name="chargingCharacteristics" minOccurs="0"/>
<element name="primaryOCSCChargingFunctionName" minOccurs="0"/>
<element
  name="secondaryOCSCChargingFunctionName"
  minOccurs="0"

```

```

    />
    <element
      name="primaryChargingCollectionFunctionName"
      minOccurs="0"
    />
    />
    <element
      name="secondaryChargingCollectionFunctionName"
      minOccurs="0"
    />
    />
    <element name="w-APNIdentifierList" minOccurs="0"/>
    <element name="maxNumberAccessesList" minOccurs="0"/>
    <element name="subscribed3GPPWLANQoSProfile" minOccurs="0"/>
    <element name="maxSubscribedBandwidth" minOccurs="0"/>
    <element name="theGPRSSupplServiceForGPRS" type="xn:dnList"/>
  </all>
</complexType>
</element>
</sequence>
</extension>
</complexContent>
</complexType>
</element>

<element name="SuMGPRSSupplService"
  substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="sS-Code" minOccurs="0"/>
                <element name="provisioningState" minOccurs="0"/>
                <element name="activationState" minOccurs="0"/>
              </all>
            </complexType>
          </element>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element name="EPSService" substitutionGroup="sn:SuMService">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="theContract" minOccurs="0"/>
                <element name="accessPointName" minOccurs="0"/>
                <element name="accessRestrictionData" minOccurs="0"/>
                <element name="aPNAMBR" minOccurs="0"/>-
                <element name="barringOfPacketOrientedServices" minOccurs="0"/>
                <element name="contextIdentifier" minOccurs="0"/>
                <element name="operatorDeterminedBarringPLMNspecificData" minOccurs="0"/>
                <element name="pDNAddress" minOccurs="0"/>
                <element name="rSZILists" minOccurs="0"/>
                <element name="sTNSR" minOccurs="0"/>
                <element name="subscribedChargingCharacteristics" minOccurs="0"/>
                <element name="subscriberStatus" minOccurs="0"/>
                <element name="networkAccessMode" minOccurs="0"/>
                <element name="barringOfOutgoingCalls" minOccurs="0"/>
                <element name="barringOfRoaming" minOccurs="0"/>
                <element name="privacyExceptionList" minOccurs="0"/>
                <element name="gMLCNumbers" minOccurs="0"/>
                <element name="mOLRList" minOccurs="0"/>
                <element name="serviceTypes" minOccurs="0"/>
                <element name="iCSIndicator" minOccurs="0"/>
                <element name="aPNOIRreplacement" minOccurs="0"/>
                <element name="subscribedUEAMBR" minOccurs="0"/>
                <element name="aPNConfigurationProfile" minOccurs="0"/>
                <element name="rFSP" minOccurs="0"/>
                <element name="vPLMNAddressAllowed-EPS" minOccurs="0"/>
                <element name="pDNGWIdentity" minOccurs="0"/>
                <element name="ePSPDNConnectedChargingCharacteristics" minOccurs="0"/>
              </all>
            </complexType>
          </element>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

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    <element name="pDNGWAllocationType" minOccurs="0"/>
    <element name="aPNLevelAPNOIReplacement" minOccurs="0"/>
    <element name="closedSubscriberUserGroupInformation" minOccurs="0"/>
    <element name="listofAuthorizedvisitednetworkidentifiers" minOccurs="0"/>
    <element name="staticWLANUERemoteIPAddressList" minOccurs="0"/>
    <element name="w-APONBarringTypeList" minOccurs="0"/>
    <element name="w-APNChargingDataList" minOccurs="0"/>
    <element name="wLANUERemoteIPAddress" minOccurs="0"/>
    <element name="accessDependenceFlag" minOccurs="0"/>
    <element name="chargingCharacteristics" minOccurs="0"/>
    <element name="primaryOCSCChargingFunctionName" minOccurs="0"/>
    <element name="secondaryOCSCChargingFunctionName" minOccurs="0"/>
    <element name="primaryChargingCollectionFunctionName" minOccurs="0"/>
    <element name="secondaryChargingCollectionFunctionName" minOccurs="0"/>
    <element name="w-APNIdentifierList" minOccurs="0"/>
    <element name="maxNumberAccessesList" minOccurs="0"/>
    <element name="maxSubscribedBandwidth" minOccurs="0"/>
    <element name="subscribed3GPPWLANQoSProfile" minOccurs="0"/>
    <element name="permanentUserIdentity" minOccurs="0"/>
    <element name="mIPSubscriberProfile" minOccurs="0"/>
  </all>
</complexType>
</element>
</sequence>
</extension>
</complexContent>
</complexType>
</element>
<element
  name="IMSService"
  substitutionGroup="sn:SuMService"
  >
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="theContract" minOccurs="0"/>
                <element
                  name="listofauthorizedvisitednetworkidentifiers"/>
                <element name="registrationStatus"/>
                <element name="sCSCFName" minOccurs="0"/>
                <element name="diameterClientAddressofSCSCF" minOccurs="0"/>
                <element name="theServerCapabilities" type="xn:dn" minOccurs="0"/>
                <element
                  name="subscribedMediaProfileIdentifier"
                  minOccurs="0"
                />
                <element name="initialFilterCriteriaList" minOccurs="0">
              </all>
            </complexType>
          </sequence>
          <element name="initialFilterCriteria" minOccurs="1" maxOccurs="unbounded"/>
        </sequence>
      </extension>
    </complexContent>
  </element>
    <complexType>
      <sequence>
        <element name="applicationServerInformation" minOccurs="0"/>
        <element name="serviceIndicationList" minOccurs="0">
      </sequence>
    </complexType>
    <complexType>
      <sequence>
        <element name="serviceIndication" minOccurs="1" maxOccurs="unbounded"/>
      </sequence>
    </complexType>
  </element>
    <element
      name="primaryEventChargingFunctionName"
      minOccurs="0"
    />
    <element
      name="secondaryEventChargingFunctionName"
      minOccurs="0"
    />
    <element name="primaryChargingCollectionFunctionName"/>
    <element
      name="secondaryChargingCollectionFunctionName"
      minOccurs="0"
    />

```

```

    />
    <element name="gsmSCFAddressforIMCSI" minOccurs="0"/>
    <element name="oIMCSI" minOccurs="0"/>
    <element name="vTIMCSI" minOccurs="0"/>
    <element name="dIMCS" minOccurs="0"/>
    <element name="gAAServiceType" minOccurs="0"/>
    <element name="gAAServiceIdentifier" minOccurs="0"/>
    <element name="gBAUserSecuritySettings" minOccurs="0"/>
    <element name="userSecuritySetting" minOccurs="0"/>
    <element name="userPublicIdentity" minOccurs="0"/>
    <element name="gAAAuthorizationflag" minOccurs="0"/>
    <element name="keyLifetime" minOccurs="0"/>
    <element name="uICCSecurityType" minOccurs="0"/>
    <element name="nAFGroupIdentity" minOccurs="0"/>
  </all>
</complexType>
</element>
</sequence>
</extension>
</complexContent>
</complexType>
</element>

<element name="SuMSubscribedService"
substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass" type="xn:NrmClass"
abstract="true"/>

<element
  name="CSSubscribedService"
  substitutionGroup="sn:SuMSubscribedService"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="theService" minOccurs="0"/>
                <element name="theOffer" minOccurs="0"/>
                <element name="networkAccessMode"/>
                <element name="basicMSISDNIndicator" minOccurs="0"/>
                <element name="mSISDNAlertIndicator" minOccurs="0"/>
                <element name="subscriptionRestriction" minOccurs="0"/>
                <element name="rSZIlists" minOccurs="0"/>
                <element name="lSAIdentity" minOccurs="0"/>
                <element name="lSAPriority" minOccurs="0"/>
                <element name="lSAPreferentialAccessIndicator" minOccurs="0"/>
                <element name="lSAActiveModeSupportIndicator" minOccurs="0"/>
                <element name="lSAOnlyAccessIndicator" minOccurs="0"/>
                <element name="lSAActiveModeIndicator" minOccurs="0"/>
                <element name="vPLMNIdentifier" minOccurs="0"/>
                <element name="accessRestrictionData" minOccurs="0"/>
                <element name="privacyExceptionList" minOccurs="0"/>
                <element name="gMLCNumbers" minOccurs="0"/>
                <element name="mOLRList" minOccurs="0"/>
                <element name="serviceTypes" minOccurs="0"/>
                <element name="mobileStationCategory" minOccurs="0"/>
                <element name="lMUIdentifier" minOccurs="0"/>
                <element name="subscriberStatus" minOccurs="0"/>
                <element name="gsmSCFAddresslistForODB"/>
                <element name="provisionOfBearerService"/>
                <element name="provisionOfTeleservice"/>
                <element name="bCAllocation" minOccurs="0"/>
                <element name="barringOfOutgoingCalls" minOccurs="0"/>
                <element name="barringOfIncomingCalls" minOccurs="0"/>
                <element name="barringOfRoaming" minOccurs="0"/>
                <element name="barringOfPremiumRateCalls" minOccurs="0"/>
                <element
                  name="barringOfSupplementaryServiceManagement"
                  minOccurs="0"
                />
              </all>
            </complexType>
          </element>
          <element
            name="barringOfRegistrationOfCallForwarding"
            minOccurs="0"
          />
          <element
            name="barringOfInvocationOfCallTransfer"

```



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        minOccurs="0"
      />
    <element
      name="operatorDeterminedBarringPLMNSpecificData"
      minOccurs="0"
    />
    <element name="vGCSGroupMembershipList" minOccurs="0"/>
    <element name="vBSGroupMembershipList" minOccurs="0"/>
    <element
      name="broadcastCallInitiationAllowedList"
      minOccurs="0"
    />
    <element
      name="originatingCAMELSubscriptionInformationOCSI"
      minOccurs="0"
    />
    <element
      name="terminatingCAMELSubscriptionInformationTCSI"
      minOccurs="0"
    />
    <element
      name="vMSCTerminatingCAMELSubscriptionInformationVTCSI"
      minOccurs="0"
    />
    <element
      name="locationInformationSubscriberStateInformation"
      minOccurs="0"
    />
    <element
      name="uSSDCAMELSubscriptionInformationUCSI"
      minOccurs="0"
    />
    <element name="sSInvocationNotificationSSCSI" minOccurs="0"/>
    <element
      name="translationInformationFlagTIFCSI"
      minOccurs="0"
    />
    <element
      name="dialledServiceCAMELSubscriptionInformationDCSI"
      minOccurs="0"
    />
    <element
      name="uSSDGeneralCAMELServiceInformationUGCSI"
      minOccurs="0"
    />
    <element
      name="shortMessageServiceCAMELSubscriptionInformationMOSMSCSI"
      minOccurs="0"
    />
    <element
      name="shortMessageServiceCAMELSubscriptionInformationMTSMSCSI"
      minOccurs="0"
    />
    <element
      name="mTSMSCSIVLRNegotiatedCAMELCapabilityHandling"
      minOccurs="0"
    />
    <element name="gsmSCFAddressforCSI" minOccurs="0"/>
    <element name="iSTAlertTimer" minOccurs="0"/>
    <element name="cSAllocationRetentionpriority" minOccurs="0"/>
    <element name="iCSIndicator" minOccurs="0"/>
    <element name="theCSSupplServiceForCSSS" type="xn:dnList"/>
  </all>
</complexType>
</element>
</sequence>
</extension>
</complexType>
</element>

<element
  name="GPRSSubscribedService"
  substitutionGroup="sn:SuMSubscribedService"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">

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```

<sequence>
  <element name="attributes" minOccurs="0">
    <complexType>
      <all>
        <element name="theService" minOccurs="0"/>
        <element name="theOffer" minOccurs="0"/>
        <element name="networkAccessMode" minOccurs="0"/>
        <element name="basicMSISDNIndicator" minOccurs="0"/>
        <element name="mSISDNAlertIndicator" minOccurs="0"/>
        <element name="rSZilists" minOccurs="0"/>
        <element name="LSAIdentity" minOccurs="0"/>
        <element name="LSAPriority" minOccurs="0"/>
        <element name="LSAPreferentialAccessIndicator" minOccurs="0"/>
        <element name="LSAActiveModeSupportIndicator" minOccurs="0"/>
        <element name="LSAOnlyAccessIndicator" minOccurs="0"/>
        <element name="LSAActiveModeIndicator" minOccurs="0"/>
        <element name="vPLMNIdentifier" minOccurs="0"/>
        <element name="accessRestrictionData" minOccurs="0"/>
        <element name="privacyExceptionList" minOccurs="0"/>
        <element name="gMLCNumbers" minOccurs="0"/>
        <element name="mOLRList" minOccurs="0"/>
        <element name="serviceTypes" minOccurs="0"/>
        <element name="gGSNNumber" minOccurs="0"/>
        <element name="provisionofTeleservice" minOccurs="0"/>
        <element name="subscriberStatus" minOccurs="0"/>
        <element name="transferofSMoption" minOccurs="0"/>
        <element
          name="barringofPacketOrientedServices"
          minOccurs="0"
        />
        <element name="pDPType" minOccurs="0"/>
        <element name="pDPAddress" minOccurs="0"/>
        <element name="accessPointName" minOccurs="0"/>
        <element name="vPLMNAddressAllowed" minOccurs="0"/>
        <element name="qualityofServiceSubscribed" minOccurs="0"/>
        <element
          name="pDPContextChargingCharacteristics"
          minOccurs="0"
        />
        <element
          name="gPRSCAMELSubscriptionInformationGPRSCSI"
          minOccurs="0"
        />
        <element
          name="mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI"
          minOccurs="0"
        />
        <element
          name="mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI"
          minOccurs="0"
        />
        <element
          name="mOSMSCSISGSNNegotiatedCAMELCapabilityHandling"
          minOccurs="0"
        />
        <element
          name="mTSMSCSISGSNNegotiatedCAMELCapabilityHandling"
          minOccurs="0"
        />
        <element
          name="mobilityManagementforGPRSeventnotificationMGCSI"
          minOccurs="0"
        />
        <element
          name="mGCSINegotiatedCAMELCapabilityHandling"
          minOccurs="0"
        />
        <element name="gsmSCFaddressforCSI" minOccurs="0"/>
        <element name="closedSubscriberGroupInformation" minOccurs="0"/>
        <element name="gSMSCFaddresslistForODB" minOccurs="0"/>
        <element name="barringOfOutgoingCalls" minOccurs="0"/>
        <element name="barringOfRoaming" minOccurs="0"/>
        <element name="operatorDeterminedBarringPLMNspecificData" minOccurs="0"/>
        <element name="sTNSR" minOccurs="0"/>
        <element name="iCSIndicator" minOccurs="0"/>
        <element
          name="subscribedChargingCharacteristics"
          minOccurs="0"
        />
      />
    />
  />

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```

    />
    <element
      name="listofauthorizedvisitednetworkidentifiers"
      minOccurs="0"
    />
    />
    <element name="wLANUERemoteIPAddress" minOccurs="0"/>
  <element name="staticWLANUERemoteIPAddressList" minOccurs="0"/>
  <element name="w-APNBarringTypeList" minOccurs="0"/>
  <element name="w-APNChargingDataList" minOccurs="0"/>
  <element name="accessDependenceFlag" minOccurs="0"/>
  <element name="chargingData" minOccurs="0"/>
  <element name="chargingCharacteristics" minOccurs="0"/>
  <element name="primaryOCSCargingFunctionName" minOccurs="0"/>
  <element name="secondaryOCSCargingFunctionName" minOccurs="0"/>
  <element name="w-APNIdentifierList" minOccurs="0"/>
  <element name="maxNumberAccessesList" minOccurs="0"/>
  <element name="maxSubscribedBandwidth" minOccurs="0"/>
  <element name="subscribed3GPPWLANQoSProfile" minOccurs="0"/>
  <element
    name="primaryChargingCollectionFunctionName"
    minOccurs="0"
  />
  <element
    name="secondaryChargingCollectionFunctionName"
    minOccurs="0"
  />
  <element name="theGPRSSupplServiceForGPRSSS" type="xn:dnList"/>
</all>
</complexType>
</element>
</sequence>
</extension>
</complexContent>
</complexType>
</element>

<element name="EPSSubscribedService" substitutionGroup="sn:SuMSubscribedService">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="theService" minOccurs="0"/>
                <element name="theOffer" minOccurs="0"/>
                <element name="accessPointName" minOccurs="0"/>
                <element name="accessRestrictionData" minOccurs="0"/>
                <element name="aPNAMBR" minOccurs="0"/>
                <element name="barringOfPacketOrientedServices" minOccurs="0"/>
                <element name="contextIdentifier" minOccurs="0"/>
                <element name="operatorDeterminedBarringPLMNspecificData" minOccurs="0"/>
                <element name="pDNAddress" minOccurs="0"/>
                <element name="rSZILlists" minOccurs="0"/>
                <element name="sTNSR" minOccurs="0"/>
                <element name="subscribedChargingCharacteristics" minOccurs="0"/>
                <element name="subscriberStatus" minOccurs="0"/>
                <element name="networkAccessMode" minOccurs="0"/>
                <element name="barringOfOutgoingCalls" minOccurs="0"/>
                <element name="barringOfRoaming" minOccurs="0"/>
                <element name="privacyExceptionList" minOccurs="0"/>
                <element name="gMLCNumbers" minOccurs="0"/>
                <element name="mOLRList" minOccurs="0"/>
                <element name="serviceTypes" minOccurs="0"/>
                <element name="iCSIndicator" minOccurs="0"/>
                <element name="aPNOIReplacement" minOccurs="0"/>
                <element name="subscribedUEAMBR" minOccurs="0"/>
                <element name="aPNConfigurationProfile" minOccurs="0"/>
                <element name="rFSP" minOccurs="0"/>
                <element name="vPLMNAddressAllowed-EPS" minOccurs="0"/>
                <element name="pDNGWIdentity" minOccurs="0"/>
                <element name="ePSPDNConnectedChargingCharacteristics" minOccurs="0"/>
                <element name="pDNGWAllocationType" minOccurs="0"/>
                <element name="aPNLevelAPNOIReplacement" minOccurs="0"/>
                <element name="closedSubscriberUserGroupInformation" minOccurs="0"/>
                <element name="listofAuthorizedvisitednetworkidentifiers" minOccurs="0"/>
                <element name="staticWLANUERemoteIPAddressList" minOccurs="0"/>
                <element name="w-APONBarringTypeList" minOccurs="0"/>
              </all>
            </complexType>
          </element>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

        <element name="w-APNChargingDataList" minOccurs="0"/>
        <element name="w-LANUERemoteIPAddress" minOccurs="0"/>
        <element name="accessDependenceFlag" minOccurs="0"/>
        <element name="chargingCharacteristics" minOccurs="0"/>
        <element name="primaryOCSCChargingFunctionName" minOccurs="0"/>
        <element name="secondaryOCSCChargingFunctionName" minOccurs="0"/>
        <element name="primaryChargingCollectionFunctionName" minOccurs="0"/>
        <element name="secondaryChargingCollectionFunctionName" minOccurs="0"/>
        <element name="w-APNIdentifierList" minOccurs="0"/>
        <element name="maxNumberAccessesList" minOccurs="0"/>
        <element name="maxSubscribedBandwidth" minOccurs="0"/>
        <element name="subscribed3GPPWLANQoSProfile" minOccurs="0"/>
        <element name="permanentUserIdentity" minOccurs="0"/>
        <element name="mIPSubscriberProfile" minOccurs="0"/>
    </all>
</complexType>
</element>
</sequence>
</extension>
</complexContent>
</complexType>
</element>

<element
  name="IMSSubscribedService"
  substitutionGroup="sn:SuMSubscribedService"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="theService" minOccurs="0"/>
                <element name="theOffer" minOccurs="0"/>
                <element name="listofauthorizedvisitednetworkidentifiers"/>
                <element name="registrationStatus"/>
                <element name="sCSCFName" minOccurs="0"/>
                <element name="diameterClientAddressofSCSCF" minOccurs="0"/>
                <element name="theServerCapabilities" type="xn:dn" minOccurs="0"/>
                <element
                  name="subscribedMediaProfileIdentifier"
                  minOccurs="0"
                />
                <element name="initialFilterCriteriaList" minOccurs="0">
                  <complexType>
                    <sequence>
                      <element name="initialFilterCriteria" minOccurs="1" maxOccurs="unbounded"/>
                    </sequence>
                  </complexType>
                </element>
                <element name="applicationServerInformation" minOccurs="0"/>
                <element name="serviceIndication" minOccurs="0">
                  <complexType>
                    <sequence>
                      <element name="serviceIndication" minOccurs="1" maxOccurs="unbounded"/>
                    </sequence>
                  </complexType>
                </element>
                <element
                  name="primaryEventChargingFunctionName"
                  minOccurs="0"
                />
                <element
                  name="secondaryEventChargingFunctionName"
                  minOccurs="0"
                />
                <element name="primaryChargingCollectionFunctionName"/>
                <element
                  name="secondaryChargingCollectionFunctionName"
                  minOccurs="0"
                />
                <element name="gsmSCFAddressforIMCSI" minOccurs="0"/>
                <element name="oIMCSI" minOccurs="0"/>
                <element name="vTIMCSI" minOccurs="0"/>
                <element name="dIMCS" minOccurs="0"/>
              </all>
            </complexType>
          </element>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

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```

        <element name="gAAServiceType" minOccurs="0"/>
        <element name="gAAServiceIdentifier" minOccurs="0"/>
        <element name="gBAUserSecuritySettings" minOccurs="0"/>
        <element name="userSecuritySetting" minOccurs="0"/>
        <element name="userPublicIdentity" minOccurs="0"/>
        <element name="gAAAuthorizationflag" minOccurs="0"/>
        <element name="keyLifetime" minOccurs="0"/>
        <element name="uICCSecurityType" minOccurs="0"/>
        <element name="nAFGroupIdentity" minOccurs="0"/>
    </all>
</complexType>
</element>
</sequence>
</extension>
</complexContent>
</complexType>
</element>

<element name="SuMServiceProfile" substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass"
type="xn:NrmClass" abstract="true"/>

<element
name="CSServiceProfile"
substitutionGroup="sn:SuMServiceProfile"
>
<complexType>
<complexContent>
<extension base="sn:Common3GPPAccessServiceProfile">
<sequence>
<element name="attributes" minOccurs="0">
<complexType>
<all>
<element name="theSpecification" minOccurs="0"/>
<element name="basicMSISDNIndicator" minOccurs="0"/>
<element name="mSISDNAlertIndicator" minOccurs="0"/>
<element name="vLRNumber"/>
<element name="mSCNumber"/>
<element name="subscriptionRestriction" minOccurs="0"/>
<element name="mSCAreaRestrictedFlag"/>
<element name="oDBinducedBarringData" minOccurs="0"/>
<element name="roamingRestrictionDueToUnsupportedFeature"/>
<element name="lSAIdentity" minOccurs="0"/>
<element name="lSAPriority" minOccurs="0"/>
<element name="lSAPreferentialAccessIndicator" minOccurs="0"/>
<element name="lSAActiveModeSupportIndicator" minOccurs="0"/>
<element name="lSAOnlyAccessIndicator" minOccurs="0"/>
<element name="lSAActiveModeIndicator" minOccurs="0"/>
<element name="vPLMNIdentifier" minOccurs="0"/>
<element name="ageIndicator" minOccurs="0"/>
<element name="lMSI"/>
<element name="mobileStationCategory"/>
<element name="lMUIdentifier" minOccurs="0"/>
<element name="mNRRMSC"/>
<element name="notificationToCSEFlagForODB" minOccurs="0"/>
<element name="gsmSCFaddresslistForODB" minOccurs="0"/>
<element name="messagesWaitingData" minOccurs="0"/>
<element name="mobileStationNotReachableFlag" minOccurs="0"/>
<element name="memoryCapacityExceededFlag"/>
<element name="traceReference" minOccurs="0"/>
<element name="traceType" minOccurs="0"/>
<element name="operationsSystemsIdentity" minOccurs="0"/>
<element name="hLRTraceType" minOccurs="0"/>
<element name="mAPErrorOnTrace" minOccurs="0"/>
<element name="traceActivatedInVLR" minOccurs="0"/>
<element name="provisionOfBearerService"/>
<element name="provisionOfTeleservice"/>
<element name="bCAllocation" minOccurs="0"/>
<element name="checkSSIndicator"/>
<element name="mSPurgedForNonGPRSFlag"/>
<element name="barringOfIncomingCalls" minOccurs="0"/>
<element name="barringOfPremiumRateCalls" minOccurs="0"/>
<element
name="barringOfSupplementaryServiceManagement"
minOccurs="0"
/>
</all>
</complexType>
</element>
</sequence>
</extension>
</complexContent>
</complexType>
</element>

```

```

/>
<element
  name="barringOfInvocationOfCallTransfer"
  minOccurs="0"
/>
/>
<element name="vGCSGroupMembershipList" minOccurs="0"/>
<element name="vBSGroupMembershipList" minOccurs="0"/>
<element
  name="broadcastCallInitiationAllowedList"
  minOccurs="0"
/>
<element
  name="originatingCAMELSubscriptionInformationOCSI"
  minOccurs="0"
/>
<element
  name="terminatingCAMELSubscriptionInformationTCSI"
  minOccurs="0"
/>
<element
  name="vMSCTerminatingCAMELSubscriptionInformationVTCSI"
  minOccurs="0"
/>
<element
  name="locationInformationSubscriberStateInformation"
  minOccurs="0"
/>
<element
  name="uSSDCAMELSubscriptionInformationUCSI"
  minOccurs="0"
/>
<element name="sSInvocationNotificationSSCSI" minOccurs="0"/>
<element
  name="translationInformationFlagTIFCSI"
  minOccurs="0"
/>
<element
  name="dialledServiceCAMELSubscriptionInformationDCSI"
  minOccurs="0"
/>
<element
  name="uSSDGeneralCAMELServiceInformationUGCSI"
  minOccurs="0"
/>
<element
  name="oCSINegotiatedCAMELCapabilityHandling"
  minOccurs="0"
/>
<element
  name="sSCSINegotiatedCAMELCapabilityHandling"
  minOccurs="0"
/>
<element
  name="vTCSINegotiatedCAMELCapabilityHandling"
  minOccurs="0"
/>
<element
  name="shortMessageServiceCAMELSubscriptionInformationMOSMSCSI"
  minOccurs="0"
/>
<element
  name="shortMessageServiceCAMELSubscriptionInformationMTSMSCSI"
  minOccurs="0"
/>
<element
  name="mOSMSCSIVLRNegotiatedCAMELCapabilityHandling"
  minOccurs="0"
/>
<element
  name="mTSMSCSIVLRNegotiatedCAMELCapabilityHandling"
  minOccurs="0"
/>
<element
  name="mCSINegotiatedCAMELCapabilityHandling"
  minOccurs="0"
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<element name="vLRSsupportedCAMELPhases" minOccurs="0"/>
<element name="gsmSCFaddressforCSI" minOccurs="0"/>

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        <element name="iSTAlertTimer" minOccurs="0"/>
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        <element name="theCSSupplServiceForCSSP" type="xn:dndList"/>
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</complexType>
</element>

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  substitutionGroup="sn:SuMServiceProfile"
  >
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                <element name="LSAIdentity" minOccurs="0"/>
                <element name="LSAPriority" minOccurs="0"/>
                <element name="LSAPreferentialAccessIndicator" minOccurs="0"/>
                <element name="LSAActiveModeSupportIndicator" minOccurs="0"/>
                <element name="LSAOnlyAccessIndicator" minOccurs="0"/>
                <element name="LSAActiveModeIndicator" minOccurs="0"/>
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                <element name="ageIndicator" minOccurs="0"/>
                <element name="sGSNNumber" minOccurs="0"/>
                <element name="gGSNNumber" minOccurs="0"/>
                <element name="mNRG" minOccurs="0"/>
                <element name="provisionofTeleservice" minOccurs="0"/>
                <element name="transferofSMoption" minOccurs="0"/>
                <element name="mSpurgedforGPRSflag" minOccurs="0"/>
                <element name="pDPType" minOccurs="0"/>
                <element name="pDPAddress" minOccurs="0"/>
                <element name="vPLMNAddressAllowed" minOccurs="0"/>
                <element name="gGSNlist" minOccurs="0"/>
                <element name="qualityofServiceSubscribed" minOccurs="0"/>
                <element name="pDPContextIdentifier" minOccurs="0"/>
                <element
                  name="pDPContextChargingCharacteristics"
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            minOccurs="0"
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          <element
            name="mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI"
            minOccurs="0"
          />
          <element
            name="mOSMSCSISGSNNegotiatedCAMELCapabilityHandling"
            minOccurs="0"
          />
          <element
            name="mTSMSCSISGSNNegotiatedCAMELCapabilityHandling"
            minOccurs="0"
          />
          <element
            name="mobilityManagementforGPRSeventnotificationMGCSI"
            minOccurs="0"
          />
          <element
            name="mGC SINegotiatedCAMELCapabilityHandling"

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      />
    <element
      name="gPRSCSINegotiatedCAMELCapabilityHandling"
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    />
    <element name="sGSNSupportedCAMELPhases" minOccurs="0" />
    <element name="sGSNOfferedCAMEL4CSIs" minOccurs="0" />
    <element name="gsmSCFAddressforCSI" minOccurs="0" />
    <element name="gSMSCFAddresslistForODB" minOccurs="0" />
    <element name="iPSMGWNumber" minOccurs="0" />
    <element name="mNRR-SGSN" minOccurs="0" />
    <element name="notificationToCSEFlagForODB" minOccurs="0" />
    <element name="theGPRSSupplServiceForGPRSSP" type="xn:dnList" />
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      <extension base="sn:PSCommonServiceProfile">
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                <element name="contextIdentifier" minOccurs="0" />
                <element name="pDNAddress" minOccurs="0" />
                <element name="aPNOIReplacement" minOccurs="0" />
                <element name="subscribedUEAMBR" minOccurs="0" />
                <element name="aPNConfigurationProfile" minOccurs="0" />
                <element name="rFSP" minOccurs="0" />
                <element name="pDNGWIdentity" minOccurs="0" />
                <element name="ePSPDNConnectionChargingCharacteristics" minOccurs="0" />
                <element name="pDNGWAllocationType" minOccurs="0" />
                <element name="aPNLevelAPNOIReplacement" minOccurs="0" />
                <element name="roamingRestrictionsDueToUnsupportedFeatureMME" minOccurs="0" />
                <element name="roamingRestrictionsDueToUnsupportedFeatureSGSN" minOccurs="0" />
                <element name="mSPurgedForEPSFlag" minOccurs="0" />
                <element name="uRRPMME" minOccurs="0" />
                <element name="mMENAME" minOccurs="0" />
                <element name="sGSNName" minOccurs="0" />
                <element name="iWFNumber" minOccurs="0" />
                <element name="sGSNAreaRestrictedFlag" minOccurs="0" />
                <element name="permanentUserIdentity" minOccurs="0" />
                <element name="vPLMNAddressAllowed-EPS" minOccurs="0" />
                <element name="theOptHandover3GPP2Par" type="xn:dn" />
                <element name="theNon3GPPAccessPar" type="xn:dn" />
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          </element>
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  </complexType>
</element>
<element name="PSCommonServiceProfile" abstract="true" substitutionGroup="sn:SuMServiceProfile">
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    <complexContent>
      <extension base="sn:Common3GPPAccessServiceProfile">
        <sequence>
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                <element name="barringofPacketOrientedServices" minOccurs="0" />
                <element name="traceActivatedinSGSN" minOccurs="0" />
                <element name="ipAddressOfTraceCollectionEntity" minOccurs="0" />
                <element name="accessPointName" minOccurs="0" />
                <element name="subscribedChargingCharacteristics" minOccurs="0" />
                <element name="sTNSR" minOccurs="0" />
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        <element name="closedSubscriberGroupInformation" minOccurs="0"/>
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                                <element name="barringOfOutgoingCalls" minOccurs="0"/>
                                <element name="barringOfRoaming" minOccurs="0"/>
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                                <element name="traceReference2" minOccurs="0"/>
                                <element name="traceDepth" minOccurs="0"/>
                                <element name="listOfNETypestoTrace" minOccurs="0"/>
                                <element name="triggeringEvents" minOccurs="0"/>
                                <element name="listOfInterfacesToTrace" minOccurs="0"/>
                                <element name="privacyExceptionList" minOccurs="0"/>
                                <element name="gMLCNumbers" minOccurs="0"/>
                                <element name="iCSIndicator" minOccurs="0"/>
                                <element name="mOLRList" minOccurs="0"/>
                                <element name="serviceTypes" minOccurs="0"/>
                                <element name="networkAccessMode" minOccurs="0"/>
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                    </element>
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            </extension>
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    </complexType>
</element>

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                                <element name="threeGPPAAAProxyName" minOccurs="0"/>
                                <element name="wLANUERemoteIPAddress" minOccurs="0"/>
                                <element name="statiswLANUERemoteIPAddressList" minOccurs="0"/>
                                <element name="w-APNBarringTypeList" minOccurs="0"/>
                                <element name="w-APNChargingDataList" minOccurs="0"/>
                                <element name="accessDependenceFlag" minOccurs="0"/>
                                <element name="i-WLANAccessType" minOccurs="0"/>
                                <element name="wLANIdentifierList" minOccurs="0"/>
                                <element name="maxNumberAccessesList" minOccurs="0"/>
                                <element name="maxSubscribedBandwidth" minOccurs="0"/>
                                <element name="subscribed3GPPWLANQoSProfile" minOccurs="0"/>
                                <element name="chargingCharacteristics" minOccurs="0"/>
                                <element name="primaryOCSChargingFunctionName" minOccurs="0"/>
                                <element name="secondaryOCSChargingFunctionName" minOccurs="0"/>
                                <element name="primaryChargingCollectionFunctionName" minOccurs="0"/>
                                <element name="secondaryChargingCollectionFunctionName" minOccurs="0"/>
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    </complexType>
</element>

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    </extension>
  </complexContent>
</complexType>
</element>

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            </complexType>
          </element>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element name="Non3GPPAccessParameters"
substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
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    <complexContent>
      <extension base="xn:NrmClass">
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                <element name="mIPSubscriberProfile" minOccurs="0"/>
                <element name="permanentUserIdentity" minOccurs="0"/>
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            </complexType>
          </element>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
name="IMSServiceProfile"
substitutionGroup="sn:SuMServiceProfile"
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    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
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                <element name="listofauthorizedvisitednetworkidentifiers"/>
                <element name="registrationStatus"/>
                <element name="sCSCFName" minOccurs="0"/>
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                <element name="theServerCapabilities" type="xn:dn" minOccurs="0"/>
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name="subscribedMediaProfileIdentifier"
minOccurs="0"
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  minOccurs="0"
/>
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<element
  name="secondaryChargingCollectionFunctionName"
  minOccurs="0"
/>
<element name="gsmSCFAddressforIMCSI" minOccurs="0"/>
<element name="iMSSFAddressforIMCSI" minOccurs="0"/>
<element name="oIMCSI" minOccurs="0"/>
<element name="vTIMCSI" minOccurs="0"/>
<element name="dIMCS" minOccurs="0"/>
<element name="gAAServiceType" minOccurs="0"/>
<element name="gAAServiceIdentifier" minOccurs="0"/>
<element name="gBAUserSecuritySettings" minOccurs="0"/>
<element name="userSecuritySetting" minOccurs="0"/>
<element name="userPublicIdentity" minOccurs="0"/>
<element name="gAAAuthorizationflag" minOccurs="0"/>
<element name="keyLifetime" minOccurs="0"/>
<element name="uICCSecurityType" minOccurs="0"/>
<element name="nAFGroupIdentity" minOccurs="0"/>
<element name="thePublicId" type="xn:dnList"/>
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</sequence>
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</element>

<complexType name="IMSPublicIdentificationType">
  <complexContent>
    <extension base="sn:SuMIdentityType">
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        <element name="publicUserIdentity" type="string" minOccurs="0"/>
        <element name="barringIndication" type="sn:binEnum" minOccurs="0"/>
      </all>
    </extension>
  </complexContent>
</complexType>

<element name="IMSPublicIdentification" type="sn:IMSPublicIdentificationType"
substitutionGroup="sn:SuMIdentity"/>

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    <enumeration value="FALSE"/>
    <enumeration value="TRUE"/>
  </restriction>
</simpleType>

<simpleType name="multinumberingMSISDNIndicator">
  <restriction base="string">
    <enumeration value="BASIC"/>
    <enumeration value="ALERT"/>
  </restriction>
</simpleType>

<complexType name="multinumberingMSISDNList">
  <sequence minOccurs="0" maxOccurs="unbounded">
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    <element name="indicator" type="sn:multinumberingMSISDNIndicator"/>
  </sequence>
</complexType>

<complexType name="ServerCapabilitiesType">

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  <extension base="sn:SuMServiceParameterType">
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      <element name="serverCapabilities"/>
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  </extension>
</complexContent>
</complexType>

<element name="ServerCapabilities" type="sn:ServerCapabilitiesType"
substitutionGroup="sn:SuMServiceParameter" />

<complexType name="SuMIdentityType">
  <complexContent>
    <restriction base="xn:NrmClass" />
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<complexType name="SuMServiceParameterType">
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</complexType>

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substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass" abstract="true" />

<element name="SuMServiceParameter" type="sn:SuMServiceParameterType"
substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass" abstract="true" />

</schema>
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Annex B (informative): Change history

Change history								
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Cat	Old	New
2014-06	SA#64	SP-140332	001	-	Upgrade W3C XML Schema version from 1.0 to 1.1	F	11.0.0	11.1.0
		SP-140359	002	-	remove the feature support statements	F		

History

Document history		
V11.0.0	April 2013	Publication
V11.1.0	July 2014	Publication