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Presentation of Specification to TSG SA

Presentation to: TSG SA Meeting #27
Document for presentation: TS 32.175, Version 1.0.0
Presented for: Approval

Abstract of document:

This TS defines the mapping of the Network Resources Model (NRM) Information Service for the Subscription Management Resources Integration Reference Point (IRP) to the protocol specific details necessary for implementation of this IRP in an XML environment.

Work is done against the WID contained in SP-040763 (Work Item ID: SuM).

This TS is a member of a family consisting of currently the following TSs:

3GPP TS 32.171: "Telecommunication management; Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): Requirements".

3GPP TS 32.172: "Telecommunication management; Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): Information Service (IS)".

3GPP TS 32.175: "Telecommunication management; Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP); eXtensible Markup Language (XML) definitions".
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Changes since last presentation:

New

Outstanding Issues:

None

Contentious Issues:

None

3GPP TS 32.175 V1.0.0 (2005-03)

Technical Specification

**3rd Generation Partnership Project;
Technical Specification Group Services and System Aspects;
Telecommunication management;
Subscription Management (SuM)
Network Resource Model (NRM)
Integration Reference Point (IRP):
eXtensible Markup Language (XML) definition
(Release 6)**



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Keywords

Subscription, Management

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Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

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:

- 32.171: Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): Requirements
- 32.172: Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): Information Service (IS).
- 32.175: Subscription Management (SuM) resources Integration Reference Point (IRP); Network Resources Model (NRM) eXtensible Markup Language (XML) definition;**

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].

The Itf-N interface for Subscription Management is built up by a number of Integration Reference Points (IRPs) and a related Name Convention, which realise the functional capabilities over this interface. The basic structure of the IRPs is defined in 3GPP TS 32.150 [1]. For SuM, a number of IRPs (and the Name Convention) are defined herein, used by this as well as other technical specifications for telecom management produced by 3GPP.

1 Scope

The purpose of this *Subscription Management (SuM) Network Resource Model IRP XML definition* is to define the mapping of the IRP information model (see TS 32.172 [5]) to the protocol specific details necessary for implementation of this IRP in an XML environment.

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.
- For a specific reference, subsequent revisions do not apply.
- 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 32.171: "Telecommunication management; Subscription Management (SuM) resources Integration Reference Point (IRP); Requirements".
- [5] 3GPP TS 32.172 "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 32.615: "Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): eXtensible Markup Language (XML) file format definition".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions in 3GPP TS 32.101 [6], 3GPP TS 32.102 [7], 3GPP TS 32.140 [2], TS 32.141 [3], TS 32.171 [4] and TS 32.172 [5] apply.

3.3 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 32.171 [4] and TS 32.172 [5] apply.

4 Architectural features

The overall architectural feature of Subscription Management (SuM) resources is specified in 3GPP TS 32.172 [5].

5 Structure and content of configuration data XML files

The overall description of the file format of configuration data XML files is provided by 3GPP TS 32.615 [8].

Annex A of the present document defines the NRM-specific XML schema `sumNrm.xsd` for the Subscription Management IRP NRM defined in 3GPP TS 32.172 [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 32.615 [8].

Annex A (normative): Subscription Management NRM-specific XML schema (file name "sumNrm.xsd")

The following XML schema `sumNrm.xsd` is the NRM-specific schema for the Subscription Management Network Resources IRP NRM defined in 3GPP TS 32.172 [5]:

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

<!--
  3GPP TS 32.175 SuM Network Resources IRP
  SuM NRM-specific XML schema
  sumNrm.xsd
-->

<schema
  targetNamespace=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.175#sumNrm"
  elementFormDefault="qualified"
  xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:sn=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.175#sumNrm"
  xmlns:xn=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"
>

  <import
    namespace=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"
    />

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

  <element
    name="ServiceProviderFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="userLabel" minOccurs="0"/>
                </all>
              </complexType>
            </element>
            <choice minOccurs="0" maxOccurs="unbounded">
              <element ref="sn:SuMService"/>
            </choice>
          </sequence>
        </complexContent>
      </complexType>
    </element>

  <element
    name="SubscriptionFunction"
```



```

substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
<complexType>
  <complexContent>
    <extension base="xn:NrmClass">
      <sequence>
        <element name="attributes" minOccurs="0">
          <complexType>
            <all>
              <element name="userLabel" minOccurs="0"/>
            </all>
          </complexType>
        </element>
        <choice minOccurs="0" maxOccurs="unbounded">
          <element ref="sn:SuMSubscriberProfile"/>
        </choice>
      </sequence>
    </extension>
  </complexContent>
</complexType>
</element>

<element name="SuMSubscriberProfile">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="suMSubscriberProfileInfo" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="sn:SuMSubscribedService"/>
            <element ref="sn:SuMSubscriptionProfile"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element name="SuMSubscriptionProfile">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="iMSI" minOccurs="0"/>
                <element name="mSISDN" minOccurs="0"/>
                <element name="multinumberingMSISDNs" minOccurs="0"/>
                <element name="iMEISV" minOccurs="0"/>
                <element name="privateUserIdentity" minOccurs="0"/>
                <element name="publicIdentity" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="sn:SuMServiceProfile"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

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

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

<element
  name="CSService"
  substitutionGroup="sn:SuMService"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="agreementContract" minOccurs="0"/>
                <element name="networkAccessMode" minOccurs="0"/>
                <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="lMUIIdentifier" minOccurs="0"/>
                <element name="subscriptionRestriction" minOccurs="0"/>
                <element name="subscriberStatus" minOccurs="0"/>
                <element name="gsmSCFaddresslistForODB" minOccurs="0"/>
                <element name="provisionOfBearerService" minOccurs="0"/>
                <element name="provisionOfTeleservice" minOccurs="0"/>
                <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"
                />
              </all>
            </complexType>
          </element>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```
    name="operatorDeterminedBarringPLMNsSpecificData"
    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="sS-Code" minOccurs="0"/>
<element name="provisioningState" minOccurs="0"/>
<element name="activationState" minOccurs="0"/>
<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>
<choice minOccurs="0" maxOccurs="unbounded">
    <element ref="sn:SuMCSSupplService"/>
</choice>
</sequence>
</extension>
</complexContent>
</complexType>
</element>
<element name="SuMCSSupplService">
    <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"/>
                                <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="PSService"
    substitutionGroup="sn:SuMService"
>
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">
                        <complexType>
                            <all>
                                <element name="agreementContract" minOccurs="0"/>
                                <element name="networkAccessMode" minOccurs="0"/>
                                <element name="basicMSISDNIndicator" minOccurs="0"/>
                            </all>
                        </complexType>
                    </element>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

```

```

<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="vPLMNIIdentifier" 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="transferofSMoption" minOccurs="0"/>
<element
  name="barringofPacketOrientedServices"
  minOccurs="0"
/>
<element name="pDPTType" 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="w-APN" minOccurs="0"/>
<element
  name="listofauthorizedvisitednetworkidentifiers"
  minOccurs="0"
/>
<element name="wLANUERemoteIPAddress" minOccurs="0"/>
<element name="wLANAccess" minOccurs="0"/>
<element name="wLANTunnelling" minOccurs="0"/>
<element name="wLANDirectIPAccess" minOccurs="0"/>
<element name="wAPNAuthorised" minOccurs="0"/>
<element name="w-APNBarringType" minOccurs="0"/>
<element name="w-APNChargingData" minOccurs="0"/>
<element name="wLANUERemoteIPAddress" minOccurs="0"/>
<element name="accessIndependenceFlag" minOccurs="0"/>
<element name="i-WLANAccessType" minOccurs="0"/>
<element name="chargingData" 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="sS-Code" minOccurs="0"/>
<element name="provisioningState" minOccurs="0"/>
<element name="activationState" minOccurs="0"/>
</all>
</complexType>
</element>
<choice minOccurs="0" maxOccurs="unbounded">
  <element ref="sn:SuMPSSupplService"/>
</choice>
</sequence>
</extension>
</complexType>
</element>
<element name="SuMPSSupplService">
  <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>

```

```

    </complexType>
  </element>

  <element
    name="IMSService"
    substitutionGroup="sn:SuMService"
  >
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="agreementContract" minOccurs="0"/>
                  <element name="barringIndication" minOccurs="0"/>
                  <element
                    name="listofauthorizedvisitednetworkidentifiers"
                    minOccurs="0"
                  />
                  <element name="registrationStatus" minOccurs="0"/>
                  <element name="sCSCFName" minOccurs="0"/>
                  <element name="serverCapabilities" minOccurs="0"/>
                  <element
                    name="subscribedMediaProfileIdentifier"
                    minOccurs="0"
                  />
                  <element name="initialFilterCriteria" minOccurs="0"/>
                  <element name="applicationServerInformation" minOccurs="0"/>
                  <element name="serviceIndication" minOccurs="0"/>
                  <element
                    name="primaryEventChargingFunctionName"
                    minOccurs="0"
                  />
                  <element
                    name="secondaryEventChargingFunctionName"
                    minOccurs="0"
                  />
                  <element
                    name="primaryChargingCollectionFunctionName"
                    minOccurs="0"
                  />
                  <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="uICCSecuritySetting" minOccurs="0"/>
                  <element name="nAFGroupIdentity" minOccurs="0"/>
                </all>
              </complexType>
            </element>
          </sequence>
        </extension>
      </complexType>
    </element>
  </sequence>

```

```

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

<element name="SuMSubscribedService" 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="descriptionService" minOccurs="0"/>
                <element name="agreementOffer" minOccurs="0"/>
                <element name="networkAccessMode" minOccurs="0"/>
                <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="vPLMNIIdentifier" 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="subscriptionRestriction" minOccurs="0"/>
                <element name="subscriberStatus" minOccurs="0"/>
                <element name="gsmSCFaddresslistForODB" minOccurs="0"/>
                <element name="provisionOfBearerService" minOccurs="0"/>
                <element name="provisionOfTeleservice" minOccurs="0"/>
                <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="originatingCAMELSubscriptionInformationOCSCI"
  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="sS-Code" minOccurs="0"/>
<element name="provisioningState" minOccurs="0"/>
<element name="activationState" minOccurs="0"/>
<element name="registrationState" minOccurs="0"/>
<element name="overrideCategory" minOccurs="0"/>
<element name="cLIRrestrictionOption" 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>
<choice minOccurs="0" maxOccurs="unbounded">
    <element ref="sn:SuMCSSupplService"/>
</choice>
</sequence>
</extension>
</complexContent>
</complexType>
</element>

<element
    name="PSSubscribedService"
    substitutionGroup="sn:SuMSubscribedService"
>
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">
                        <complexType>
                            <all>
                                <element name="descriptionService" minOccurs="0"/>
                                <element name="agreementOffer" minOccurs="0"/>
                                <element name="networkAccessMode" minOccurs="0"/>
                                <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="vPLMNIIdentifier" minOccurs="0"/>
                                <element name="accessRestrictionData" minOccurs="0"/>
                                <element name="privacyExceptionList" minOccurs="0"/>
                                <element name="gMLCNumbers" minOccurs="0"/>
                                <element name="mOLRLList" minOccurs="0"/>
                                <element name="serviceTypes" minOccurs="0"/>
                                <element name="gGSNNumber" minOccurs="0"/>
                                <element name="provisionofTeleservice" 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"
                                />
                            </all>
                        </complexType>
                    </element>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

```

```

/>
<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="w-APN" minOccurs="0"/>
<element
  name="listofauthorizedvisitednetworkidentifiers"
  minOccurs="0"
/>
<element name="wLANUERemoteIPAddress" minOccurs="0"/>
<element name="wLANAccess" minOccurs="0"/>
<element name="wLANTunnelling" minOccurs="0"/>
<element name="wLANDirectIPAccess" minOccurs="0"/>
<element name="wAPNAuthorised" minOccurs="0"/>
<element name="w-APNBarringType" minOccurs="0"/>
<element name="w-APNChargingData" minOccurs="0"/>
<element name="wLANUERemoteIPAddress" minOccurs="0"/>
<element name="accessIndependenceFlag" minOccurs="0"/>
<element name="i-WLANAccessType" minOccurs="0"/>
<element name="chargingData" 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"

```

```

        />
        <element name="sS-Code" minOccurs="0"/>
        <element name="provisioningState" minOccurs="0"/>
        <element name="activationState" minOccurs="0"/>
    </all>
</complexType>
</element>
<choice minOccurs="0" maxOccurs="unbounded">
    <element ref="sn:SuMPSSupplService"/>
</choice>
</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="descriptionService" minOccurs="0"/>
                                <element name="agreementOffer" minOccurs="0"/>
                                <element name="barringIndication" minOccurs="0"/>
                                <element
                                    name="listofauthorizedvisitednetworkidentifiers"
                                    minOccurs="0"
                                />
                                <element name="registrationStatus" minOccurs="0"/>
                                <element name="sCSCFName" minOccurs="0"/>
                                <element name="serverCapabilities" minOccurs="0"/>
                                <element
                                    name="subscribedMediaProfileIdentifier"
                                    minOccurs="0"
                                />
                                <element name="initialFilterCriteria" minOccurs="0"/>
                                <element name="applicationServerInformation" minOccurs="0"/>
                                <element name="serviceIndication" minOccurs="0"/>
                                <element
                                    name="primaryEventChargingFunctionName"
                                    minOccurs="0"
                                />
                                <element
                                    name="secondaryEventChargingFunctionName"
                                    minOccurs="0"
                                />
                                <element
                                    name="primaryChargingCollectionFunctionName"
                                    minOccurs="0"
                                />
                                <element
                                    name="secondaryChargingCollectionFunctionName"
                                    minOccurs="0"
                                />
                                <element name="gsmSCFaddressforIMCSI" minOccurs="0"/>
                                <element name="oIMCSI" minOccurs="0"/>
                                <element name="vTIMCSI" minOccurs="0"/>
                            </all>
                        </complexType>
                    </element>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

```

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    <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="uICCSecuritySetting" minOccurs="0"/>
    <element name="nAFGroupIdentity" minOccurs="0"/>
  </all>
</complexType>
</element>
</sequence>
</extension>
</complexContent>
</complexType>
</element>

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

<element
  name="CSServiceProfile"
  substitutionGroup="sn:SuMServiceProfile"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="descriptionSpecification" minOccurs="0"/>
                <element name="networkAccessMode" minOccurs="0"/>
                <element name="basicMSISDNIndicator" minOccurs="0"/>
                <element name="mSISDNAlertIndicator" minOccurs="0"/>
                <element name="vLRNNumber" minOccurs="0"/>
                <element name="mSCNumber" minOccurs="0"/>
                <element name="subscriptionRestriction" minOccurs="0"/>
                <element name="rSZIlists" minOccurs="0"/>
                <element name="mSCAreaRestrictedFlag" minOccurs="0"/>
                <element name="oDBinducedBarringData" minOccurs="0"/>
                <element
                  name="roamingRestrictionDueToUnsupportedFeature"
                  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="ageIndicator" minOccurs="0"/>
                <element name="lMSI" minOccurs="0"/>
                <element name="mobileStationCategory" minOccurs="0"/>
                <element name="lMUIIdentifier" minOccurs="0"/>
                <element name="mSCNumber" minOccurs="0"/>
              </all>
            </complexType>
          </element>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

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<element name="subscriptionRestriction" minOccurs="0"/>
<element name="mSCAreaRestrictedFlag" minOccurs="0"/>
<element name="oDBinducedBarringData" minOccurs="0"/>
<element
  name="roamingRestrictionDueToUnsupportedFeature"
  minOccurs="0"
/>
<element name="mNRR" minOccurs="0"/>
<element name="subscriberStatus" minOccurs="0"/>
<element name="notificationToCSEFlagForODB" minOccurs="0"/>
<element name="gsmSCFaddresslistForODB" minOccurs="0"/>
<element name="messagesWaitingData" minOccurs="0"/>
<element name="mobileStationNotReachableFlag" minOccurs="0"/>
<element name="memoryCapacityExceededFlag" minOccurs="0"/>
<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" minOccurs="0"/>
<element name="provisionOfTeleservice" minOccurs="0"/>
<element name="bCAllocation" minOccurs="0"/>
<element name="checkSSIndicator" minOccurs="0"/>
<element name="mSPurgedForNonGPRSFlag" 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="oCSINegotiatedCAMELCapabilityHandling"
  minOccurs="0"
/>
<element
  name="sCSINegotiatedCAMELCapabilityHandling"
  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"
/>
<element name="vLRSupportedCAMELPhases" minOccurs="0"/>
<element name="gsmSCFaddressforCSI" minOccurs="0"/>
<element name="vLROfferedCAMEL4CSIs" minOccurs="0"/>
<element name="iSTAlertTimer" minOccurs="0"/>
<element name="cSAllocationRetentionpriority" minOccurs="0"/>
<element name="sS-Code" minOccurs="0"/>
<element name="provisioningState" minOccurs="0"/>
<element name="activationState" minOccurs="0"/>
<element name="registrationState" minOccurs="0"/>
<element name="overrideCategory" minOccurs="0"/>

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```

        <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>
<choice minOccurs="0" maxOccurs="unbounded">
    <element ref="sn:SuMCSSupplService"/>
</choice>
</sequence>
</extension>
</complexContent>
</complexType>
</element>

<element
    name="PSServiceProfile"
    substitutionGroup="sn:SuMServiceProfile"
>
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">
                        <complexType>
                            <all>
                                <element name="descriptionSpecification" minOccurs="0"/>
                                <element name="networkAccessMode" minOccurs="0"/>
                                <element name="basicMSISDNIndicator" minOccurs="0"/>
                                <element name="mSISDNAlertIndicator" minOccurs="0"/>
                                <element name="vLRNNumber" minOccurs="0"/>
                                <element name="mSCNNumber" minOccurs="0"/>
                                <element name="subscriptionRestriction" minOccurs="0"/>
                                <element name="rSZIlists" minOccurs="0"/>
                                <element name="mSCAreaRestrictedFlag" minOccurs="0"/>
                                <element name="oDBinducedBarringData" minOccurs="0"/>
                                <element
                                    name="roamingRestrictionDueToUnsupportedFeature"
                                    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="ageIndicator" minOccurs="0"/>
                                <element name="sGSNNumber" minOccurs="0"/>
                                <element name="gGSNNumber" minOccurs="0"/>
                                <element name="sGSNarearestrictedflag" minOccurs="0"/>
                                <element
                                    name="roamingRestrictedintheSGSNduetounsupportedfeature"
                                />
                            </all>
                        </complexType>
                    </element>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

```



```

    minOccurs="0"
  />
  <element name="mNRG" minOccurs="0"/>
  <element name="traceActivatedinSGSN" minOccurs="0"/>
  <element name="provisionofTeleservice" minOccurs="0"/>
  <element name="transferofSMoption" minOccurs="0"/>
  <element name="mSpurgedforGPRSflag" 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="gGSNlist" minOccurs="0"/>
  <element name="qualityofServiceSubscribed" minOccurs="0"/>
  <element name="pDPContextIdentifier" 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="gPRSCSINegotiatedCAMELCapabilityHandling"
    minOccurs="0"
  />
  <element name="sGSNSupportedCAMELPhases" minOccurs="0"/>
  <element name="sGSNOfferedCAMEL4CSIs" minOccurs="0"/>
  <element name="gsmSCFaddressforCSI" minOccurs="0"/>
  <element
    name="subscribedChargingCharacteristics"
    minOccurs="0"
  />
  <element name="w-APN" minOccurs="0"/>
  <element

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```

        name="listofauthorizedvisitednetworkidentifiers"
        minOccurs="0"
    />
</element>
<element name="wLANUERemoteIPAddress" minOccurs="0"/>
<element name="wLANAccess" minOccurs="0"/>
<element name="wLANTunnelling" minOccurs="0"/>
<element name="wLANDirectIPAccess" minOccurs="0"/>
<element name="wAPNAuthorised" minOccurs="0"/>
<element name="w-APNBarringType" minOccurs="0"/>
<element name="w-APNChargingData" minOccurs="0"/>
<element name="wLANUERemoteIPAddress" minOccurs="0"/>
<element name="accessIndependenceFlag" minOccurs="0"/>
<element name="i-WLANAccessType" minOccurs="0"/>
<element name="chargingData" 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"
/>
<element name="sS-Code" minOccurs="0"/>
<element name="provisioningState" minOccurs="0"/>
<element name="activationState" minOccurs="0"/>
</all>
</complexType>
</element>
<choice minOccurs="0" maxOccurs="unbounded">
    <element ref="sn:SuMPSSupplService"/>
</choice>
</sequence>
</extension>
</complexContent>
</complexType>
</element>

<element
    name="IMSServiceProfile"
    substitutionGroup="sn:SuMServiceProfile"
>
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">
                        <complexType>
                            <all>
                                <element name="descriptionSpecification" minOccurs="0"/>
                                <element name="barringIndication" minOccurs="0"/>
                                <element
                                    name="listofauthorizedvisitednetworkidentifiers"
                                    minOccurs="0"
                                />
                                <element name="registrationStatus" minOccurs="0"/>
                                <element name="sCSCFName" minOccurs="0"/>
                                <element name="diameterClientAddressofSCSCF" minOccurs="0"/>
                            </all>
                        </complexType>
                    </element>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

```

```
<element name="serverCapabilities" minOccurs="0"/>
<element
  name="subscribedMediaProfileIdentifier"
  minOccurs="0"
/>
<element name="initialFilterCriteria" minOccurs="0"/>
<element name="applicationServerInformation" minOccurs="0"/>
<element name="serviceIndication" minOccurs="0"/>
<element
  name="primaryEventChargingFunctionName"
  minOccurs="0"
/>
<element
  name="secondaryEventChargingFunctionName"
  minOccurs="0"
/>
<element
  name="primaryChargingCollectionFunctionName"
  minOccurs="0"
/>
<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="gAAAauthorizationflag" minOccurs="0"/>
<element name="keyLifetime" minOccurs="0"/>
<element name="uICCSecuritySetting" minOccurs="0"/>
<element name="nAFGroupIdentity" minOccurs="0"/>
</all>
</complexType>
</element>
</sequence>
</extension>
</complexContent>
</complexType>
</element>
</schema>
```

Annex B (informative): XML schema electronic files

The electronic files corresponding to the normative XML schemas defined in the present document are available in native form in the following archive:

http://www.3gpp.org/ftp/specs/archive/32_series/32.175/schema/32175-600-XMLSchema.zip

Annex C (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Mar 2005	S_27	SP-050025	--	--	Submitted to TSG SA#27 for Approval	1.0.0	