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Technical Specification

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Universal Mobile Telecommunications System (UMTS);
Telecommunication management;
Subscription Management (SuM)
Network Resource Model (NRM)
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Information Service (IS)
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## **Foreword**

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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
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## Introduction

The interface Itf-N, defined in 3GPP TS 32.102 [2], 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 32.101 [1] and 3GPP TS 32.102 [2].

The present document is part of a TS-family covering the 3<sup>rd</sup> 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 32.171:	"Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): Requirements ".
TS 32.172:	"Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): Information Service (IS)".
TS 32.175:	"Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): eXtensible Markup Language (XML) definition".

## 1 Scope

The present document defines the Network Resources Model (NRM) for the SuM IRP.

## 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 32.101: "Telecommunication management; Principles and high level requirements".
- [2] 3GPP TS 32.102: "Telecommunication management; Architecture".
- [3] 3GPP TS 32.140: "Telecommunication management; Subscription Management (SuM) Requirements".
- [4] 3GPP TS 32.141: "Telecommunication management; Subscription Management (SuM) Architecture."
- [5] 3GPP TS 32.171: "Telecommunication management; Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): Requirements ".
- [6] 3GPP TS 32.622: "Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP): Network Resource Model (NRM)".
- [7] 3GPP TS 23.008: "Organization of subscriber data".

## 3 Definitions and abbreviations

## 3.1 Definitions

For the purposes of the present document, the following terms and definitions apply. For terms and definitions not found here, please refer to 3GPP TS 32.101 [1], 3GPP TS 32.102 [2], 3GPP TS 32.140 [3] and TS 32.141 [4].

Subscription Profile: see 3GPP TS 32.140 [3].

**Subscription Profile Component:** see 3GPP TS 32.140 [3].

**Subscription Profile Component Definition:** specifies a Subscription Profile Component.

Subscriber Profile: see 3GPP TS 32.140 [3].

#### 3.2 Abbreviations

For the purposes of the present document the following and the abbreviations in 32.101 [1], 32.102 [2], 32.140 [3] and 32.141 [4] apply.

EM Element Manager

IOCInformation Object ClassIRPIntegration Reference PointMOCManaged Object ClassNENetwork ElementSuMSubscription Management

# 4 Compliance rules

The following defines the meaning of Mandatory and Optional IOC attributes and associations between IOCs, in Solution Sets to the IRP defined by the present document.

Solution Sets to the SuM IRP:

- The IRPManager shall support all Mandatory attributes/associations. The IRPManager shall be prepared to
  receive information related to Mandatory as well as Optional attributes/associations without failure; however
  the IRPManager does not have to support handling of the Optional attributes/associations.
- The IRPAgent shall support all Mandatory attributes/associations. It may support Optional attributes/associations.

An IRPAgent that incorporates vendor-specific extensions shall support normal communication with a 3GPP SA5-compliant IRPManager with respect to all Mandatory and Optional Managed Object Classes (MOCs), attributes, associations, operations, parameters and notifications without requiring the IRPManager to have any knowledge of the extensions.

# 5 Modelling approach

The modelling approach adopted and used in this IRP is described in 3GPP TS 32.622 [6].

# 6 Information Object Classes

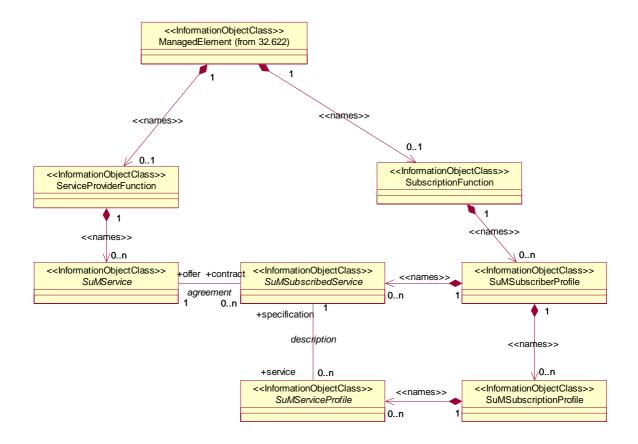
## 6.1 Imported information entities and local labels

Label reference	Local label
32.622 [6], information object class, ManagedFunction	ManagedFunction
32.622 [6], information object class, ManagedElement	ManagedElement

## 6.2 Class diagram

## 6.2.1 Attributes and relationships

This clause depicts the set of IOCs that encapsulate information relevant for this service. This sub-clause provides the overview of all information object classes in UML. Subsequent clauses provide more detailed specification of various aspects of these Information Object Classes (IOCs).



NOTE: The listed cardinality numbers represent transient as well as steady-state numbers, and reflect all managed object creation and deletion scenarios.

Figure 1.a: SuM NRM Containment/Naming and Association diagram

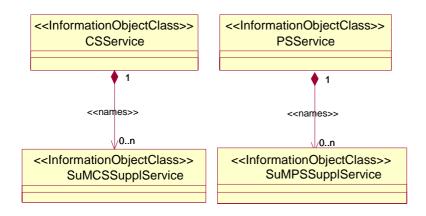


Figure 1.b: SuM Supplementary Service NRM Containment/Naming and Association diagram 1

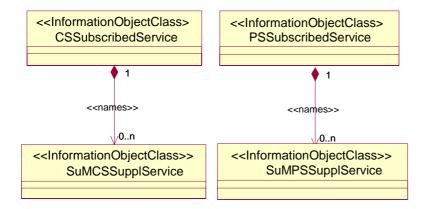


Figure 1.c: SuM Supplementary Service NRM Containment/Naming and Association diagram 2

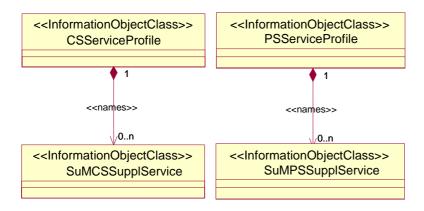


Figure 1.d: SuM Supplementary Service NRM Containment/Naming and Association diagram 3

#### 6.2.2 Inheritance

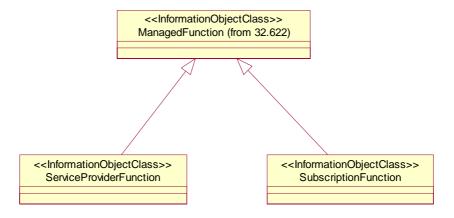


Figure 2a: SuM NRM Inheritance Hierarchy 1

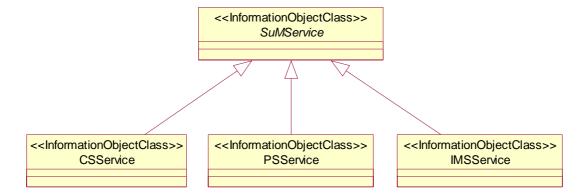


Figure 2b: SuM NRM Inheritance Hierarchy 2

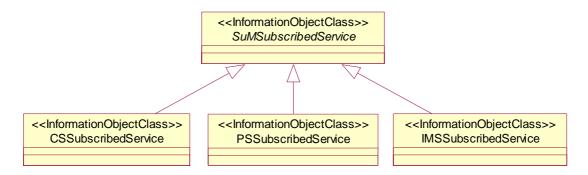


Figure 2c: SuM NRM Inheritance Hierarchy 3

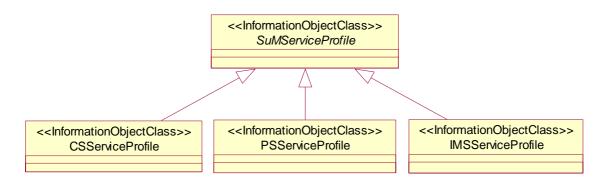


Figure 2d: SuM NRM Inheritance Hierarchy 4

## 6.3 Information Object Class definitions

#### 6.3.1 SuMService

#### 6.3.1.1 Definition

This is an abstract IOC provided for sub-classing only. It provides attribute(s) that are common to Services IOCs.

#### 6.3.1.2 Attributes

#### Attributes of SuMService

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
agreement-contract	+	M	M	0

## 6.3.2 CSService

#### 6.3.2.1 Definition

In this management context:

- a) This class represents a CS service (see 3GPP TS 23.008 [7]) provided by a service provider
- b) This class contains the valid parameters that define the CS service from subscription point of view.

## 6.3.2.2 Attributes

#### Attributes of CSService

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
cSServiceId	+	М	М	-
networkAccessMode	+	M	M	М
basicMSISDNIndicator	+	0	M	M
mSISDNAlertIndicator	+	0	M	M
subscriptionRestriction	+	0	M	M
rSZIlists	+	0	M	M
lSAIdentity	+	0	M	M
lsApriority	+	0	M	M
ISAPreferentialAccessIndicator	+	0	M	M
lSAActiveModeSupportIndicator	+	0	M	M
1SAOnlyAccessIndicator	+	0	M	M
1SAActiveModeIndicator	+	0	M	M
vPLMNIdentifier	+	0	M	M
accessRestrictionData	+	0	M	M
privacyExceptionList	+	0	M	M
gMLCNumbers	+	0	M	M
mOLRList		0	M	M
serviceTypes	+	0	M	M
mobileStationCategory	+	M	M	M
1MUIdentifier	+	M	M	M
subscriptionRestriction	+	M	M	M
subscriberStatus	+	M	M	M
gsmSCFaddresslistForODB	+			
provisionOfBearerService	+	M M	M M	M M
provisionOfTeleservice	+			
bCAllocation	+	M O	M	M
barringOfOutgoingCalls	+	0	M	M
barringOfOutgOffngCalls  barringOfIncomingCalls	+		M	M
	+	0	M	M
barringOfRoaming barringOfPremiumRateCalls	+	0	M	M
	+	0	M	M
barringOfSupplementaryServiceManagement barringOfRegistrationOfCallForwarding	+	0	M	M
	+	0	M	M
barringOfInvocationOfCallTransfer	+	0	M	M
operatorDeterminedBarringPLMNspecificData	+	0	M	M
vGCSGroupMembershipList	+	0	M	M
vBSGroupMembershipList broadcastCallInitiationAllowedList	+	0	M	M
	+	0	M	M
originatingCAMELSubscriptionInformationOCSI	+	0	M	M
terminatingCAMELSubscriptionInformationTCSI	+	0	M	M
vMSCTerminatingCAMELSubscriptionInformationVTCSI	+	0	M	M
locationInformationSubscriberStateInformation	+	0	M	M
uSSDCAMELSubscriptionInformationUCSI	+	0	M	M
sSInvocationNotificationSSCSI	+	0	M	M
translationInformationFlagTIFCSI	+	0	M	M
dialledServiceCAMELSubscriptionInformationDCSI	+	0	M	M
uSSDGeneralCAMELServiceInformationUGCSI	+	0	M	M
shortMessageServiceCAMELSubscriptionInformationMOSMSCSI	+	0	M	M
shortMessageServiceCAMELSubscriptionInformationMTSMSCSI	+	0	M	M
mTSMSCSIVLRNegotiatedCAMELCapabilityHandling	+	0	M	M
gsmSCFaddressforCSI	+	0	М	M
iSTAlertTimer	+	0	М	M
cSAllocationRetentionpriority	+	0	M	М

## 6.3.2.3 Attribute constraints

The optional attributes shall be supported for the following criteria: The NE supports the parameter (see TS 23.008 [7]).

## 6.3.3 PSService

#### 6.3.3.1 Definition

In this management context:

- a) This class represents a PS service (see 3GPP TS 23.008 [7]) provided by a service provider
- b) This class contains the valid parameters that define the PS service from subscription point of view.

## 6.3.3.2 Attributes

## Attributes of PSService

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
pSServiceId		M	M	Qualifiei
networkAccessMode	+	M	M	M
basicMSISDNIndicator		0	M	M
mSISDNAlertIndicator	+	0	M	M
subscriptionRestriction	+			
rSZIlists	+	0	M	M
1SAIdentity	+	0	M	M
	+	0	M	M
ISAPriority   ISAPreferentialAccessIndicator	+	0	M	M
	+	0	M	M
1SAActiveModeSupportIndicator	+	0	M	M
lSAOnlyAccessIndicator	+	0	M	M
1SAActiveModeIndicator	+	0	M	M
vPLMNIdentifier	+	0	M	M
accessRestrictionData	+	0	M	M
privacyExceptionList	+	0	M	M
gMLCNumbers	+	0	M	M
mOLRList	+	0	M	M
serviceTypes	+	0	M	M
gGSNNumber	+	0	M	M
provisionofTeleservice	+	0	М	М
transferofSMoption	+	М	М	М
barringofPacketOrientedServices	+	0	М	М
pDPType	+	0	М	М
pDPAddress	+	0	M	M
accessPointName	+	0	M	M
vPLMNAddressAllowed	+	0	M	M
qualityofServiceSubscribed	+	0	M	M
pDPContextChargingCharacteristics	+	0	M	M
gPRSCAMELSubscriptionInformationGPRSCSI	+	0	M	M
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI		0	M	M
mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI	+	0	M	M
mOSMSCSISGSNNegotiatedCAMELCapabilityHandling		0	M	M
mTSMSCSISGSNNegotiatedCAMELCapabilityHandling	+	0	M	
mobilityManagementforGPRSeventnotificationMGCSI	+			M
	+	0 0	M	M
mGCSINegotiatedCAMELCapabilityHandling	+	0	M	M
gsmSCFaddressforCSI	+	0	M	M
subscribedChargingCharacteristics	+	0	M	M
W-APN	+	0	M	M
listofauthorizedvisitednetworkidentifiers	+	0	M	М
wLANUERemoteIPaddress	+	0	M	M
wLANAccess	+	0	M	M
wLANTunnelling	+	0	M	M
wLANDirectIPAccess	+	0	M	M
wAPNAuthorised	+	0	M	M
w-APNBarringType	+	0	M	M
w-APNChargingData	+	0	M	M
wLANUERemoteIPAddress	+	0	M	М
accessIndependenceFlag	+	0	М	М
i-WLANAccessType	+	0	М	М
chargingData	+	0	M	M
chargingCharacteristics	+	0	M	M
primaryOCSChargingFunctionName	+	0	M	M
secondaryOCSChargingFunctionName	+	0	M	M
primaryChargingCollectionFunctionName	+	0	M	M
secondaryChargingCollectionFunctionName	+	0	M	M
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#### 6.3.3.3 Attribute constraints

The optional attributes shall be supported for the following criteria: The NE supports the parameter (See TS 23.008 [7]).

#### 6.3.4 IMSService

#### 6.3.4.1 Definition

In this management context:

- a) This class represents a IMS service (see 3GPP TS 23.008 [7]) provided by a service provider
- b) This class contains the valid parameters that define the ims service from subscription point of view.

#### 6.3.4.2 Attributes

#### Attributes of IMSService

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
iMSServiceId	+	M	М	-
barringIndication	+	M	М	M
listofauthorizedvisitednetworkidentifiers	+	M	М	M
registrationStatus	+	M	М	M
sCSCFName	+	M	М	M
serverCapabilities	+	0	М	M
subscribedMediaProfileIdentifier	+	0	М	М
initialFilterCriteria	+	0	М	М
applicationServerInformation	+	0	М	М
serviceIndication	+	M	М	М
primaryEventChargingFunctionName	+	0	M	М
secondaryEventChargingFunctionName	+	0	М	М
primaryChargingCollectionFunctionName	+	M	М	М
secondaryChargingCollectionFunctionName	+	0	М	M
gsmSCFaddressforIMCSI	+	0	М	M
oIMCSI	+	0	М	M
vTIMCSI	+	0	М	M
dIMCS	+	0	М	M
gAAServiceType	+	0	М	M
gAAServiceIdentifier	+	0	М	M
gBAUserSecuritySettings	+	0	М	M
userSecuritySetting	+	0	М	M
userPublicIdentity	+	0	М	M
gAAAuthorizationflag	+	0	М	М
keyLifetime	+	0	М	М
uICCSecuritySetting	+	0	М	М
nAFGroupIdentity	+	0	М	M

## 6.3.4.3 Attribute constraints

The optional attributes shall be supported for the following criteria: The NE supports the parameter (See TS 23.008 [7]).

#### 6.3.5 SuMSubscribedService

#### 6.3.5.1 Definition

This is an abstract IOC provided for sub-classing only. It provides attribute(s) that are common to Subscribed Services IOCs.

#### 6.3.5.2 Attributes

#### Attributes of SuMSubscribedService

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
description-service	+	M	M	0
agreement-offer	+	M	M	0

## 6.3.6 CSSubscribedService

#### 6.3.6.1 Definition

In this management context:

- a) This class represents subscription to a CS service (see 3GPP TS 23.008 [7]) for a subscriber. The entire set of CS subscribed services owned by a subscriber constitutes the subscriber's Subscribed Services Profile for CS services.
- b) This class contains the agreed (between the Subscriber and the Service Provider) parameter settings for a CS service that a Subscriber subscribes to.

## 6.3.6.2 Attributes

#### Attributes of CSSubscribedService

Attribute name         Visibility         Qualifier         Qualifier
networkAccessMode         +         M         M         M           basicMSISDNIndicator         +         O         M         M           mSISDNAlertIndicator         +         O         M         M           subscriptionRestriction         +         O         M         M           rSZIlists         +         O         M         M           lSAIdentity         +         O         M         M           lSAPriority         +         O         M         M           lSAPr
basicMSISDNIndicator         +         O         M         M           mSISDNAlertIndicator         +         O         M         M           subscriptionRestriction         +         O         M         M           rSZIlists         +         O         M         M           lSAIdentity         +         O         M         M           lSAPriority         +         O         M         M           lSAPreferentialAccessIndicator         +         O         M         M           lSAActiveModeSupportIndicator         +         O         M         M           lSAOnlyAccessIndicator         +         O         M         M           lSAActiveModeIndicator         +         O         M         M           vPLMNIdentifier         +         O         M         M           accessRestrictionData         +         O         M         M           privacyExceptionList         +         O         M         M           mOLRList         +         O         M         M           mobileStationCategory         +         M         M         M           mobileStationRestriction         +
mSISDNAlertIndicator         +         O         M         M           subscriptionRestriction         +         O         M         M           rSZIlists         +         O         M         M           lSAIdentity         +         O         M         M           lSAPriority         +         O         M         M           lSAPreferentialAccessIndicator         +         O         M         M           lSAActiveModeSupportIndicator         +         O         M         M           lSAOnlyAccessIndicator         +         O         M         M           lSAActiveModeIndicator         +         O         M         M           vPLMNIdentifier         +         O         M         M           accessRestrictionData         +         O         M         M           privacyExceptionList         +         O         M         M           gMLCNumbers         +         O         M         M           mOLRList         +         O         M         M           serviceTypes         +         O         M         M           mobileStationCategory         +         M
subscriptionRestriction         +         O         M         M           rSZIlists         +         O         M         M           lSAIdentity         +         O         M         M           lSAPriority         +         O         M         M           lSAPreferentialAccessIndicator         +         O         M         M           lSAActiveModeSupportIndicator         +         O         M         M           lSAOnlyAccessIndicator         +         O         M         M           lSAActiveModeIndicator         +         O         M         M           vPLMNIdentifier         +         O         M         M           accessRestrictionData         +         O         M         M           privacyExceptionList         +         O         M         M           gMLCNumbers         +         O         M         M           mOLRList         +         O         M         M           serviceTypes         +         O         M         M           mobileStationCategory         +         M         M         M           M         M         M         M
rSZIlists         +         O         M         M           lSAIdentity         +         O         M         M           lSAPriority         +         O         M         M           lSAPreferentialAccessIndicator         +         O         M         M           lSAActiveModeSupportIndicator         +         O         M         M           lSAOnlyAccessIndicator         +         O         M         M           lSAActiveModeIndicator         +         O         M         M           vPLMNIdentifier         +         O         M         M           accessRestrictionData         +         O         M         M           privacyExceptionList         +         O         M         M           gMLCNumbers         +         O         M         M           mOLRList         +         O         M         M           serviceTypes         +         O         M         M           mobileStationCategory         +         M         M         M           lMUIdentifier         +         M         M         M           subscriptionRestriction         +         M
ISAIdentity         +         O         M         M           ISAPriority         +         O         M         M           ISAPreferentialAccessIndicator         +         O         M         M           ISAActiveModeSupportIndicator         +         O         M         M           ISAOnlyAccessIndicator         +         O         M         M           ISAActiveModeIndicator         +         O         M         M           VPLMNIdentifier         +         O         M         M           accessRestrictionData         +         O         M         M           privacyExceptionList         +         O         M         M           gMLCNumbers         +         O         M         M           mOLRList         +         O         M         M           serviceTypes         +         O         M         M           mobileStationCategory         +         M         M         M           IMUIdentifier         +         M         M         M           subscriptionRestriction         +         M         M         M
SAPriority
ISAPreferentialAccessIndicator         +         O         M         M           ISAActiveModeSupportIndicator         +         O         M         M           ISAOnlyAccessIndicator         +         O         M         M           ISAActiveModeIndicator         +         O         M         M           vPLMNIdentifier         +         O         M         M           accessRestrictionData         +         O         M         M           privacyExceptionList         +         O         M         M           gMLCNumbers         +         O         M         M           mOLRList         +         O         M         M           serviceTypes         +         O         M         M           mobileStationCategory         +         M         M         M           IMUIdentifier         +         M         M         M           subscriptionRestriction         +         M         M         M
1SAActiveModeSupportIndicator         +         O         M         M           1SAOnlyAccessIndicator         +         O         M         M           1SAActiveModeIndicator         +         O         M         M           vPLMNIdentifier         +         O         M         M           accessRestrictionData         +         O         M         M           privacyExceptionList         +         O         M         M           gMLCNumbers         +         O         M         M           mOLRList         +         O         M         M           serviceTypes         +         O         M         M           mobileStationCategory         +         M         M         M           1MUIdentifier         +         M         M         M           subscriptionRestriction         +         M         M         M
1SAOnlyAccessIndicator         +         O         M         M           1SAActiveModeIndicator         +         O         M         M           vPLMNIdentifier         +         O         M         M           accessRestrictionData         +         O         M         M           privacyExceptionList         +         O         M         M           gMLCNumbers         +         O         M         M           mOLRList         +         O         M         M           serviceTypes         +         O         M         M           mobileStationCategory         +         M         M         M           lMUIdentifier         +         M         M         M           subscriptionRestriction         +         M         M         M
1SAActiveModeIndicator         +         O         M         M           vPLMNIdentifier         +         O         M         M           accessRestrictionData         +         O         M         M           privacyExceptionList         +         O         M         M           gMLCNumbers         +         O         M         M           mOLRList         +         O         M         M           serviceTypes         +         O         M         M           mobileStationCategory         +         M         M         M           lMUIdentifier         +         M         M         M           subscriptionRestriction         +         M         M         M
vPLMNIdentifier         +         O         M         M           accessRestrictionData         +         O         M         M           privacyExceptionList         +         O         M         M           gMLCNumbers         +         O         M         M           mOLRList         +         O         M         M           serviceTypes         +         O         M         M           mobileStationCategory         +         M         M         M           lMUIdentifier         +         M         M         M           subscriptionRestriction         +         M         M         M
accessRestrictionData         +         O         M         M           privacyExceptionList         +         O         M         M           gMLCNumbers         +         O         M         M           mOLRList         +         O         M         M           serviceTypes         +         O         M         M           mobileStationCategory         +         M         M         M           lMUIdentifier         +         M         M         M           subscriptionRestriction         +         M         M         M
privacyExceptionList         +         O         M         M           gMLCNumbers         +         O         M         M           mOLRList         +         O         M         M           serviceTypes         +         O         M         M           mobileStationCategory         +         M         M         M           lMUIdentifier         +         M         M         M           subscriptionRestriction         +         M         M         M
gMLCNumbers         +         O         M         M           mOLRList         +         O         M         M           serviceTypes         +         O         M         M           mobileStationCategory         +         M         M         M           lMUIdentifier         +         M         M         M           subscriptionRestriction         +         M         M         M
mOLRList         +         O         M         M           serviceTypes         +         O         M         M           mobileStationCategory         +         M         M         M           lMUIdentifier         +         M         M         M           subscriptionRestriction         +         M         M         M
serviceTypes         +         O         M         M           mobileStationCategory         +         M         M         M           lMUIdentifier         +         M         M         M           subscriptionRestriction         +         M         M         M
mobileStationCategory         +         M         M         M           lMUIdentifier         +         M         M         M           subscriptionRestriction         +         M         M         M
1MUIdentifier         +         M         M         M           subscriptionRestriction         +         M         M         M
subscriptionRestriction + M M
gsmSCFaddresslistForODB + M M
provisionOfBearerService + M M M
provisionOfTeleservice + M M M
bCAllocation + O M M
barringOfOutgoingCalls + O M M
barringOfIncomingCalls + O M M
barringOfRoaming + O M M
barringOfPremiumRateCalls + O M M
barringOfSupplementaryServiceManagement + O M M
barringOfRegistrationOfCallForwarding + O M M
barringOfInvocationOfCallTransfer + O M M
operatorDeterminedBarringPLMNspecificData + O M M
vGCSGroupMembershipList + O M M
vBSGroupMembershipList + O M M
broadcastCallInitiationAllowedList + O M M
originatingCAMELSubscriptionInformationOCSI + O M M
terminatingCAMELSubscriptionInformationTCSI + O M M
vMSCTerminatingCAMELSubscriptionInformationVTCSI + O M M
locationInformation/SubscriberStateInformation + O M M
uSSDCAMELSubscriptionInformationUCSI + O M M
sSInvocationNotificationSSCSI + O M M
translationInformationFlagTIFCSI + O M M
dialledServiceCAMELSubscriptionInformationDCSI + O M M
uSSDGeneralCAMELServiceInformationUGCSI + O M M
shortMessageServiceCAMELSubscriptionInformationMOSMSCSI + O M M
shortMessageServiceCAMELSubscriptionInformationMTSMSCSI + O M M
mTSMSCSIVLRNegotiatedCAMELCapabilityHandling + O M M
gsmSCFaddressforCSI + O M M
iSTAlertTimer + O M M
cSAllocationRetentionpriority + O M M

## 6.3.6.3 Attribute constraints

The optional attributes shall be supported for the following criteria: The NE supports the parameter (See TS 23.008 [7]).

## 6.3.7 PSSubscribedService

#### 6.3.7.1 Definition

In this management context:

- a) This class represents subscription to a PS service (see 3GPP TS 23.008 [7]) for a subscriber. The entire set of PS subscribed services owned by a subscriber constitutes the subscriber's Subscribed Services Profile for PS services.
- b) This class contains the agreed (between the Subscriber and the Service Provider) parameter settings for a PS service that a Subscriber subscribes to.

## 6.3.7.2 Attributes

## Attributes of PSSubscribedService

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
pSSubscribedServiceId	+	М	M	-
networkAccessMode	+	M	M	М
basicMSISDNIndicator	+	0	M	M
mSISDNAlertIndicator	+	0	M	M
subscriptionRestriction	+	0	M	M
rSZIlists		0	M	M
lSAIdentity	+	0	M	M
ISAPriority	-	0	M	M
ISAPTIOTITY	+			
	+	0	M	M
lsAActiveModeSupportIndicator	+	0	M	M
lSAOnlyAccessIndicator	+	0	M	M
lSAActiveModeIndicator	+	0	M	M
vPLMNIdentifier	+	0	М	M
accessRestrictionData	+	0	M	M
privacyExceptionList	+	0	M	M
gMLCNumbers	+	0	M	M
mOLRList	+	0	M	M
serviceTypes	+	0	M	M
gGSNNumber	+	0	M	M
provisionofTeleservice	+	0	М	M
transferofSMoption	+	М	М	M
barringofPacketOrientedServices	+	0	М	M
pDPType	+	0	М	М
pDPAddress	+	Ö	M	M
accessPointName	+	Ö	M	M
vPLMNAddressAllowed	+	0	M	M
qualityofServiceSubscribed	+	0	M	M
pDPContextChargingCharacteristics	+	0	M	M
gPRSCAMELSubscriptionInformationGPRSCSI	+	0	M	M
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI	+	0	M	M
mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI	+	0	M	M
mOSMSCSISGSNNegotiatedCAMELCapabilityHandling		0	M	M
mTSMSCSISGSNNegotiatedCAMELCapabilityHandling	+	0	M	
mobilityManagementforGPRSeventnotificationMGCSI	+			M
	+	0	M	M
mGCSINegotiatedCAMELCapabilityHandling	+	0	M	M
gsmSCFaddressforCSI	+	0	M	M
subscribedChargingCharacteristics	+	0	M	М
W-APN	+	0	M	M
listofauthorizedvisitednetworkidentifiers	+	0	М	M
wLANUERemoteIPaddress	+	0	M	M
wLANAccess	+	0	M	M
wLANTunnelling	+	0	M	M
wLANDirectIPAccess	+	0	M	M
wAPNAuthorised	+	0	M	M
w-APNBarringType	+	0	M	M
w-APNChargingData	+	0	М	M
wLANUERemoteIPAddress	+	0	М	M
accessIndependenceFlag	+	0	М	М
i-WLANAccessType	+	0	М	М
chargingData	+	0	M	M
chargingCharacteristics	+	0	M	M
primaryOCSChargingFunctionName	+	0	M	M
secondaryOCSChargingFunctionName	+	0	M	M
primaryChargingCollectionFunctionName	+	0	M	M
secondaryChargingCollectionFunctionName		0	M	M
becomain yenaryingcorrections and eromanic	+		IVI	IVI

#### 6.3.7.3 Attribute constraints

The optional attributes shall be supported for the following criteria: The NE supports the parameter (see TS 23.008 [7]).

## 6.3.8 IMSSubscribedService

#### 6.3.8.1 Definition

In this management context:

- a) This class represents subscription to an ims (see 3GPP TS 23.008 [7]) service for a subscriber. The entire set of ims subscribed services owned by a subscriber constitutes the subscriber's Subscribed Services Profile for PS services.
- b) This class contains the agreed (between the Subscriber and the Service Provider) parameter settings for an ims service that a Subscriber subscribes to.

#### 6.3.8.2 Attributes

#### Attributes of IMSSubscribedService

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
iMSSubscribedServiceId	+	M	M	-
barringIndication	+	M	M	M
listofauthorizedvisitednetworkidentifiers	+	M	M	M
registrationStatus	+	M	M	M
sCSCFName	+	M	M	M
serverCapabilities	+	0	M	M
subscribedMediaProfileIdentifier	+	0	M	M
initialFilterCriteria	+	0	M	M
applicationServerInformation	+	0	M	M
serviceIndication	+	M	M	M
primaryEventChargingFunctionName	+	0	M	M
secondaryEventChargingFunctionName	+	0	M	M
primaryChargingCollectionFunctionName	+	M	M	М
secondaryChargingCollectionFunctionName	+	0	M	M
gsmSCFaddressforIMCSI	+	0	M	M
oIMCSI	+	0	M	M
vTIMCSI	+	0	M	M
dIMCS	+	0	M	M
gAAServiceType	+	0	M	M
gAAServiceIdentifier	+	0	M	M
gBAUserSecuritySettings	+	0	M	M
userSecuritySetting	+	0	M	M
userPublicIdentity	+	0	M	M
gAAAuthorizationflag	+	0	М	M
keyLifetime	+	0	M	M
uICCSecuritySetting	+	0	M	M
nAFGroupIdentity	+	0	M	M

#### 6.3.8.3 Attribute constraints

The optional attributes shall be supported for the following criteria: The NE supports the parameter (see TS 23.008 [7]).

#### 6.3.9 SuMSubscriberProfile

#### 6.3.9.1 Definition

In this management context:

- a) This class represents the Subscriber Profile.
- b) This class contains the Subscribed Services for a subscriber
- c) This class contains the users for a subscriber.

#### 6.3.9.2 Attributes

#### Attributes of SuMSubscriberProfile

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
suMSubscriberProfileId	+	M	M	-
suMSubscriberProfileInfo	+	M	M	0

## 6.3.10 SuMSubscriptionProfile

#### 6.3.10.1 Definition

In this management context:

- a) This class represents user's subscription profile of the services contracted by a subscriber.
- b) This class contains Service Profiles for the services contracted by a subscriber and assigned to a user.

#### 6.3.10.2 Attributes

#### Attributes of SuMSubscriptionProfile

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
suMSubscriptionProfileId	+	M	M	-
iMSI	+	M	M	M
mSISDN	+	M	M	M
multinumberingMSISDNs	+	M	M	M
iMEISV	+	0	M	-
privateUserIdentity	+	M	M	M
publicIdentity	+	М	M	M

#### 6.3.10.3 Attribute constraints

The optional attributes shall be supported for the following criteria: The NE supports the parameter (see TS 23.008 [7]).

#### 6.3.11 SumServiceProfile

#### 6.3.11.1 Definition

This is an abstract IOC provided for sub-classing only. It provides attribute(s) that are common to Service Profiles IOCs.

#### **Attributes**

#### Attributes of SumServiceProfile

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
description-specification	+	M	M	0

## 6.3.12 CSServiceProfile

## 6.3.12.1 Definition

In this management context:

a) This class represents for a subscribed CS service (see 3GPP TS 23.008 [7]) the service preferences and settings chosen for a user.

## 6.3.12.2 Attributes

## Attributes of CSServiceProfile

SSERVICEPROFILEID	Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
NetworkAccesMode		-		•	
BesignSistNindicator	networkAccessMode	-			
MSISDNAIertIndicator	basicMSISDNIndicator	ł			
VLRNUMBER	mSISDNAlertIndicator	1	_		
## SCNumber ## ## ## ## ## ## ## ## ## ## ## ## ##	vLRNumber	ł	_		-
subscriptionRestriction         +         O         M         M           sS2Tlists         +         O         M         M           sS2Tlists         +         M         M         -           ODBinducedBarringData         +         M         M         -           roamingRestrictionDucToUnsupportedFeature         +         M         M         -           1SAPciveModeIndicator         +         O         M         M           1SAActiveModeSupportIndicator         +         O         M         M           1SAActiveModeIndicator         +         O         M         M           1SAActiveModeIndicator         +         O         M         M           VPLMNIdentifier         +         O         M         M           SACCESSERICTIONDATA         +         O         M         M           PINCAUMERS         +         O         M         M           MyCLORUBERS         +         O         M         M           MOLRIST         +         O         M         M           MolList         +         O         M         M           MSI         +         O         M </td <td>mSCNumber</td> <td></td> <td></td> <td></td> <td>_</td>	mSCNumber				_
SSTilsts	subscriptionRestriction				М
SCAreaRestrictedFlag		ł			
DBinducedBarringData	mSCAreaRestrictedFlag	1			
		ł			_
SARIdentity		1			_
ISAPriority		-			М
ISAPerferentialAccess Indicator		ł	_		
ISAActiveModeSupportIndicator		ł			
ISAActiveModeIndicator					
ISAActiveModeIndicator					
PPLMNIdentifier		ł			
accessRestrictionData	vPLMNIdentifier	†			
PrivacyExceptionList	accessRestrictionData	1			
MICNUMBERS		ł			
MOLRList		1			
ServiceTypes					
ageIndicator	serviceTypes				
MSI					
mobileStationCategory         +         M         SubscriptionRestrictionDueToUnsupportedFeature         +         M         M         -         ODBinducedBarringData         +         M         M         -         NM         -         NRR         +         M         M         -         SubscriberStatus         +         M         M         -         NM         -         NM         -         NM         -         M         M         -         MM         -         <		ł			_
MUIdentifier	mobileStationCategory				М
mSCNumber         +         M         M         -           subscriptionRestriction         +         M         M         M           mSCAreaRestrictedFlag         +         M         M         -           oDBinducedBarringData         +         M         M         -           roamingRestrictionDueToUnsupportedFeature         +         M         M         -           mNRR         +         M         M         -         -           subscriberStatus         +         M         M         -         -         -         M         M         -         -         -         -         M         M         -         -         -         -         -         -         M         M         -		-			
subscriptionRestriction         +         M         M         M           mSCAreaRestrictedFlag         +         M         M         -           oDBinducedBarringData         +         M         M         -           roamingRestrictionDueToUnsupportedFeature         +         M         M         -           mNRR         +         M         M         -           subscriberStatus         +         M         M         -           notificationToCSEFlagForODB         +         M         M         -           gsmSCFaddresslistForODB         +         M         M         -           gsmSCFaddresslistForODB         +         M         M         -           memoryCapacityExceededFlag         +         M         M         -           memoryCapacityExceededFlag         +         M         M         -           traceReference         +         O         M         -           traceType		ł			-
mSCAreaRestrictedFlag         +         M         -           oDBinducedBarringData         +         M         M         -           roamingRestrictionDucToUnsupportedFeature         +         M         M         -           mNRR         +         M         M         -           subscriberStatus         +         M         M         -           sgmSGFaddresslistForODB         +         M         M         -           sgmSGFaddresslistForODB         +         M         M         -           messagesWaitingData         +         M         M         -           memoryCapacityExceededFlag         +         M         M         -           traceReference         +         O         M         -           traceType         +         O	subscriptionRestriction	ł			М
oDBinducedBarringData         +         M         M         -           roamingRestrictionDueToUnsupportedFeature         +         M         M         -           mNRR         +         M         M         -           subscriberStatus         +         M         M         M           notificationToCSEFlagForODB         +         M         M         -           gsmSCFaddresslistForODB         +         M         M         -           messagesWaitingData         +         M         M         -           memoryCapacityExceededFlag         +         M         M         -           memoryCapacityExceededFlag         +         M         M         -           traceReference         +         O         M         -           traceType         +         O         M         -           traceType         +		1			
roamingRestrictionDueToUnsupportedFeature         +         M         M         -           mNRR         +         M         M         -           subscriberStatus         +         M         M         M           notificationToCSEFlagForODB         +         M         M         -           gsmSCFaddresslistForODB         +         M         M         -           mobileStationNotReachableFlag         +         M         M         -           mobileStationNotReachableFlag         +         M         M         -           memoryCapacityExceededFlag         +         M         M         -           traceReference         +         O         M         -           traceType         +         O         M         -           mAPETTOONTAGE         +		ł			_
mNRR         +         M         M         -           subscriberStatus         +         M         M         M           notificationToCSEFlagForODB         +         M         M         -           gemSCFaddresslistForODB         +         M         M         -           messagesWaitingData         +         M         M         -           meboryCapacityExceededFlag         +         M         M         -           traceReference         +         O         M         -           traceReference         +         O         M         -           traceType         +         O         M         -           operationsSystemsIdentity         +         O         M         -           hLRTraceType         +         O         M         -           traceActivatedInVLR         +         O         M         -           traceActivatedInVLR         +         O         M         -           provisionOfTeleservice         +         M         M         M           bCAllocation         +         M         M         -           mSPurgedForNonGPRSFlag         +         M		1			_
subscriberStatus         +         M         M           notificationToCSEFlagForODB         +         M         M           gsmSCFaddresslistForODB         +         M         M           messagesWaitingData         +         M         M           mobileStationNotReachableFlag         +         M         M           memoryCapacityExceededFlag         +         M         M           traceReference         +         O         M         -           traceType         +         O         M         -           operationsSystemsIdentity         +         O         M         -           hLRTraceType         +         O         M         -           mAPErrorOnTrace         +         O         M         -           traceActivatedInVLR         +         O         M         -           provisionOfBearerService         +         M         M         M           provisionOfTeleservice         +         M         M         M           bCAllocation         +         O         M         M           barringOfDutgoingCalls         +         M         M         -           barringOfTnocmi		-			_
notificationToCSEFlagForODB         +         M         M         -<	subscriberStatus	ł			М
gsmSCFaddresslistForODB         +         M         M           messagesWaitingData         +         M         M           mobileStationNotReachableFlag         +         M         M           memoryCapacityExceededFlag         +         M         M           traceReference         +         O         M         -           traceType         +         O         M         -           operationsSystemsIdentity         +         O         M         -           hLRTraceType         +         O         M         -           mAPErrorOnTrace         +         O         M         -           mAPErrorOnTrace         +         O         M         -           traceActivatedInVLR         +         O         M         -           provisionOfBearerService         +         M         M         M           provisionOfTeleservice         +         M         M         M           bCAllocation         +         O         M         M           barringOfTeleservice         +         M         M         -           mSPurgedForNonGPRSFlag         +         M         M         - <t< td=""><td>notificationToCSEFlagForODB</td><td>ł</td><td></td><td></td><td></td></t<>	notificationToCSEFlagForODB	ł			
messagesWaitingData         +         M         M         -           mobileStationNotReachableFlag         +         M         M         -           memoryCapacityExceededFlag         +         M         M         -           traceReference         +         O         M         -           traceType         +         O         M         -           operationsSystemsIdentity         +         O         M         -           hLRTraceType         +         O         M         -           mAPErrorOnTrace         +         O         M         -           traceActivatedInVLR         +         O         M         -           provisionOfBearerService         +         M         M         M           provisionOfTeleservice         +         M         M         M           bCAllocation         +         O         M         M           bcAllocation         +         O         M         M           mSPurgedForNonGPRSFlag         +         M         M         -           barringOfOutgoingCalls         +         O         M         M           barringOfRoaming         +					М
mobileStationNotReachableFlag         +         M         M         -           memoryCapacityExceededFlag         +         M         M         -           traceReference         +         O         M         -           traceType         +         O         M         -           operationsSystemsIdentity         +         O         M         -           hLRTraceType         +         O         M         -           mAPErrorOnTrace         +         O         M         -           traceActivatedInVLR         +         O         M         -           provisionOfBearerService         +         M         M         M           provisionOfTeleservice         +         M         M         M           bCAllocation         +         O         M         M           bChallocation         +         O         M         M           mSPurgedForNonGPRSFlag         +         M         M         -           barring0fOutgoingCalls         +         O         M         M           barringofRoaming         +         O         M         M           barringofSupplementaryServiceManagement	messagesWaitingData		М	M	-
memoryCapacityExceededFlag         +         M         M         -           traceReference         +         O         M         -           traceType         +         O         M         -           operationsSystemsIdentity         +         O         M         -           hLRTraceType         +         O         M         -           mAPErrorOnTrace         +         O         M         -           mAPErrorOnTrace         +         O         M         -           traceActivatedInVLR         +         O         M         -           provisionOfBearerService         +         M         M         M           provisionOfTeleservice         +         M         M         M           bCAllocation         +         O         M         M           checkSSIndicator         +         O         M         M           mSPurgedForNonGPRSFlag         +         M         M         -           barringOfLougingCalls         +         O         M         M           barringOfRoaming         +         O         M         M           barringOfSupplementaryServiceManagement         + </td <td></td> <td>ł</td> <td></td> <td></td> <td>-</td>		ł			-
traceType         +         O         M         -           operationsSystemsIdentity         +         O         M         -           hLRTraceType         +         O         M         -           mAPErrorOnTrace         +         O         M         -           traceActivatedInVLR         +         O         M         -           provisionOfBearerService         +         M         M         M           provisionOfTeleservice         +         M         M         M           bCAllocation         +         O         M         M           checkSSIndicator         +         M         M         -           mSPurgedForNonGPRSFlag         +         M         M         -           barringOfOutgoingCalls         +         O         M         M           barringOfIncomingCalls         +         O         M         M           barringOfRoming         +         O         M         M           barringOfSupplementaryServiceManagement         +         O         M         M           barringOfInvocationOfCallTransfer         +         O         M         M           barringOfInvocationOf	memoryCapacityExceededFlag	1			-
traceType         +         O         M         -           operationsSystemsIdentity         +         O         M         -           hLRTraceType         +         O         M         -           mAPErrorOnTrace         +         O         M         -           traceActivatedInVLR         +         O         M         -           provisionOfBearerService         +         M         M         M           provisionOfTeleservice         +         M         M         M           bCAllocation         +         O         M         M           bCAllocation         +         O         M         M           checkSSIndicator         +         M         M         -           mSPurgedForNonGPRSFlag         +         M         M         -           barringOfUtgoingCalls         +         O         M         M           barringOfIncomingCalls         +         O         M         M           barringOfSupplementaryServiceManagement         +         O         M         M           barringOfInvocationOfCallTransfer         +         O         M         M           operatorDeterminedBarring	traceReference	+	0	М	-
hLRTraceType         +         O         M         -           mAPErrorOnTrace         +         O         M         -           traceActivatedInVLR         +         O         M         -           provisionOfBearerService         +         M         M         M           provisionOfTeleservice         +         M         M         M           bCAllocation         +         O         M         M           checkSSIndicator         +         M         M         -           mSPurgedForNonGPRSFlag         +         M         M         -           barringOfOutgoingCalls         +         O         M         M           barringOfIncomingCalls         +         O         M         M           barringOfRoaming         +         O         M         M           barringOfSupplementaryServiceManagement         +         O         M         M           barringOfInvocationOfCallForwarding         +         O         M         M           barringOfInvocationOfCallTransfer         +         O         M         M           operatorDeterminedBarringPLMNspecificData         +         O         M         M	traceType				-
hLRTraceType         +         O         M         -           mAPErrorOnTrace         +         O         M         -           traceActivatedInVLR         +         O         M         -           provisionOfBearerService         +         M         M         M           provisionOfTeleservice         +         M         M         M           bCAllocation         +         O         M         M           checkSSIndicator         +         M         M         -           mSPurgedForNonGPRSFlag         +         M         M         -           barringOfOutgoingCalls         +         O         M         M           barringOfIncomingCalls         +         O         M         M           barringOfRoaming         +         O         M         M           barringOfSupplementaryServiceManagement         +         O         M         M           barringOfInvocationOfCallForwarding         +         O         M         M           barringOfInvocationOfCallTransfer         +         O         M         M           operatorDeterminedBarringPLMNspecificData         +         O         M         M	operationsSystemsIdentity	+	0	М	-
traceActivatedInVLR         +         O         M         -           provisionOfBearerService         +         M         M         M           provisionOfTeleservice         +         M         M         M           bCAllocation         +         O         M         M           checkSSIndicator         +         M         M         -           mSPurgedForNonGPRSFlag         +         M         M         -           barringOfOutgoingCalls         +         O         M         M           barringOfIncomingCalls         +         O         M         M           barringOfRoaming         +         O         M         M           barringOfSupplementaryServiceManagement         +         O         M         M           barringOfRegistrationOfCallForwarding         +         O         M         M           barringOfInvocationOfCallTransfer         +         O         M         M           operatorDeterminedBarringPLMNspecificData         +         O         M         M	hLRTraceType	+	0	М	-
provisionOfBearerService         +         M         M         M           provisionOfTeleservice         +         M         M         M           bCAllocation         +         O         M         M           checkSSIndicator         +         M         M         -           mSPurgedForNonGPRSFlag         +         M         M         -           barringOfOutgoingCalls         +         O         M         M           barringOfIncomingCalls         +         O         M         M           barringOfRoaming         +         O         M         M           barringOfPremiumRateCalls         +         O         M         M           barringOfSupplementaryServiceManagement         +         O         M         M           barringOfInvocationOfCallForwarding         +         O         M         M           barringOfInvocationOfCallTransfer         +         O         M         M           operatorDeterminedBarringPLMNspecificData         +         O         M         M	mAPErrorOnTrace	+	0	М	-
provisionOfTeleservice         +         M         M         M           bCAllocation         +         O         M         M           checkSSIndicator         +         M         M         -           mSPurgedForNonGPRSFlag         +         M         M         -           barringOfOutgoingCalls         +         O         M         M           barringOfIncomingCalls         +         O         M         M           barringOfRoaming         +         O         M         M           barringOfPremiumRateCalls         +         O         M         M           barringOfSupplementaryServiceManagement         +         O         M         M           barringOfRegistrationOfCallForwarding         +         O         M         M           barringOfInvocationOfCallTransfer         +         O         M         M           operatorDeterminedBarringPLMNspecificData         +         O         M         M	traceActivatedInVLR	+	0	М	-
bCAllocation         +         O         M         M           checkSSIndicator         +         M         M         -           mSPurgedForNonGPRSFlag         +         M         M         -           barringOfOutgoingCalls         +         O         M         M           barringOfIncomingCalls         +         O         M         M           barringOfRoaming         +         O         M         M           barringOfPremiumRateCalls         +         O         M         M           barringOfSupplementaryServiceManagement         +         O         M         M           barringOfRegistrationOfCallForwarding         +         O         M         M           barringOfInvocationOfCallTransfer         +         O         M         M           operatorDeterminedBarringPLMNspecificData         +         O         M         M	provisionOfBearerService	+	М	М	М
checkSSIndicator         +         M         M         -           mSPurgedForNonGPRSFlag         +         M         M         -           barringOfOutgoingCalls         +         O         M         M           barringOfIncomingCalls         +         O         M         M           barringOfRoaming         +         O         M         M           barringOfPremiumRateCalls         +         O         M         M           barringOfSupplementaryServiceManagement         +         O         M         M           barringOfRegistrationOfCallForwarding         +         O         M         M           barringOfInvocationOfCallTransfer         +         O         M         M           operatorDeterminedBarringPLMNspecificData         +         O         M         M	provisionOfTeleservice	+	М	М	М
mSPurgedForNonGPRSFlag         +         M         M         -           barringOfOutgoingCalls         +         O         M         M           barringOfIncomingCalls         +         O         M         M           barringOfRoaming         +         O         M         M           barringOfPremiumRateCalls         +         O         M         M           barringOfSupplementaryServiceManagement         +         O         M         M           barringOfRegistrationOfCallForwarding         +         O         M         M           barringOfInvocationOfCallTransfer         +         O         M         M           operatorDeterminedBarringPLMNspecificData         +         O         M         M	bCAllocation	+	0	М	М
mSPurgedForNonGPRSFlag         +         M         M         -           barringOfOutgoingCalls         +         O         M         M           barringOfIncomingCalls         +         O         M         M           barringOfRoaming         +         O         M         M           barringOfPremiumRateCalls         +         O         M         M           barringOfSupplementaryServiceManagement         +         O         M         M           barringOfRegistrationOfCallForwarding         +         O         M         M           barringOfInvocationOfCallTransfer         +         O         M         M           operatorDeterminedBarringPLMNspecificData         +         O         M         M	checkSSIndicator				-
barringOfOutgoingCalls         +         O         M         M           barringOfIncomingCalls         +         O         M         M           barringOfRoaming         +         O         M         M           barringOfPremiumRateCalls         +         O         M         M           barringOfSupplementaryServiceManagement         +         O         M         M           barringOfRegistrationOfCallForwarding         +         O         M         M           barringOfInvocationOfCallTransfer         +         O         M         M           operatorDeterminedBarringPLMNspecificData         +         O         M         M	mSPurgedForNonGPRSFlag	+	М		-
barringOfIncomingCalls         +         O         M         M           barringOfRoaming         +         O         M         M           barringOfPremiumRateCalls         +         O         M         M           barringOfSupplementaryServiceManagement         +         O         M         M           barringOfRegistrationOfCallForwarding         +         O         M         M           barringOfInvocationOfCallTransfer         +         O         M         M           operatorDeterminedBarringPLMNspecificData         +         O         M         M	barringOfOutgoingCalls	+			М
barringOfPremiumRateCalls+OMMbarringOfSupplementaryServiceManagement+OMMbarringOfRegistrationOfCallForwarding+OMMbarringOfInvocationOfCallTransfer+OMMoperatorDeterminedBarringPLMNspecificData+OMM	barringOfIncomingCalls	+	0		
barringOfPremiumRateCalls+OMMbarringOfSupplementaryServiceManagement+OMMbarringOfRegistrationOfCallForwarding+OMMbarringOfInvocationOfCallTransfer+OMMoperatorDeterminedBarringPLMNspecificData+OMM	barringOfRoaming	+	0	М	М
barringOfSupplementaryServiceManagement+OMMbarringOfRegistrationOfCallForwarding+OMMbarringOfInvocationOfCallTransfer+OMMoperatorDeterminedBarringPLMNspecificData+OMM	barringOfPremiumRateCalls				
barringOfRegistrationOfCallForwarding+OMMbarringOfInvocationOfCallTransfer+OMMoperatorDeterminedBarringPLMNspecificData+OMM	barringOfSupplementaryServiceManagement				
barringOfInvocationOfCallTransfer + O M M operatorDeterminedBarringPLMNspecificData + O M M	barringOfRegistrationOfCallForwarding				
operatorDeterminedBarringPLMNspecificData + O M M	barringOfInvocationOfCallTransfer	+	0		
	operatorDeterminedBarringPLMNspecificData		0	М	М
	vGCSGroupMembershipList	+	0		М

vBSGroupMembershipList			N 4	N 4
broadcastCallInitiationAllowedList	+	0	M	M
	+	0	M	M
originatingCAMELSubscriptionInformationOCSI	+	0	M	M
terminatingCAMELSubscriptionInformationTCSI	+	0	M	M
vMSCTerminatingCAMELSubscriptionInformationVTCSI	+	0	M	M
locationInformationSubscriberStateInformation	+	0	M	M
uSSDCAMELSubscriptionInformationUCSI	+	0	M	M
sSInvocationNotificationSSCSI	+	0	M	M
translationInformationFlagTIFCSI	+	0	M	M
dialledServiceCAMELSubscriptionInformationDCSI	+	0	M	М
uSSDGeneralCAMELServiceInformationUGCSI	+	0	M	M
oCSINegotiatedCAMELCapabilityHandling	+	0	M	-
sSCSINegotiatedCAMELCapabilityHandling	+	0	M	-
vTCSINegotiatedCAMELCapabilityHandling	+	0	M	-
shortMessageServiceCAMELSubscriptionInformationMOSMSCSI	+	0	M	M
shortMessageServiceCAMELSubscriptionInformationMTSMSCSI	+	0	M	M
mOSMSCSIVLRNegotiatedCAMELCapabilityHandling	+	0	M	-
mTSMSCSIVLRNegotiatedCAMELCapabilityHandling	+	0	M	M
mCSINegotiatedCAMELCapabilityHandling	+	0	M	-
vLRSupportedCAMELPhases	+	0	М	-
gsmSCFaddressforCSI	+	0	М	M
vLROfferedCAMEL4CSIs	+	0	М	-
iSTAlertTimer	+	0	М	М
cSAllocationRetentionpriority	+	0	М	М
TraceReference2	+	0	М	-
TraceDepth	+	0	M	-
ListofNeTypestoTrace	+	0	M	-
TriggeringEvents	+	0	М	-
ListofInterfacestoTrace	+	0	M	-

#### 6.3.12.3 Attribute constraints

The optional attributes:

accessRestrictionData ageIndicator barringOfIncomingCalls barringOfInvocationOfCallTransfer barringOfOutgoingCalls barringOfPremiumRateCalls barringOfRegistrationOfCallForwarding barringOfRoaming  ${\tt barringOfSupplementaryServiceManagement}$ basicMSISDNIndicator bCAllocation bCAllocation broadcastCallInitiationAllowedList cSAllocationRetentionpriority dialledServiceCAMELSubscriptionInformationDCSI gMLCNumbers gsmSCFaddressforCSI iSTAlertTimer locationInformationSubscriberStateInformation lSAActiveModeIndicator lSAActiveModeSupportIndicator 1SAIdentity lSAOnlyAccessIndicator lSAPreferentialAccess Indicator **1SAPriority**  ${\tt mCSINegotiatedCAMELCapabilityHandling}$ mOLRList  ${\tt mOSMSCSIVLRNegotiatedCAMELCapabilityHandling}$ mSISDNAlertIndicator

```
mTSMSCSIVLRNegotiatedCAMELCapabilityHandling
oCSINegotiatedCAMELCapabilityHandling
oDBinducedBarringData
operatorDeterminedBarringPLMNspecificData
originatingCAMELSubscriptionInformationOCSI
privacyExceptionList
rSZIlists
serviceTypes
\verb|shortMessageServiceCAMELSubscriptionInformationMOSMSCSI|
\verb|shortMessageServiceCAMELSubscriptionInformationMTSMSCSI|
sSCSINegotiatedCAMELCapabilityHandling
sSInvocationNotificationSSCSI
subscriptionRestriction
{\tt terminating CAMEL Subscription Information TCSI}
translationInformationFlagTIFCSI
uSSDCAMELSubscriptionInformationUCSI
uSSDGeneralCAMELServiceInformationUGCSI
vBSGroupMembershipList
vGCSGroupMembershipList
vLROfferedCAMEL4CSIs
vLRSupportedCAMELPhases
vMSCTerminatingCAMELSubscriptionInformationVTCSI
vPLMNIdentifier
vTCSINegotiatedCAMELCapabilityHandling
```

shall be supported for the following criteria: The NE supports the parameter (see TS 23.008 [7]).

#### 6.3.13 PSServiceProfile

#### 6.3.13.1 Definition

In this management context:

a) This class represents for a subscribed PS service (see 3GPP TS 23.008 [7]) the service preferences and settings chosen for a user.

## 6.3.13.2 Attributes

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
pSServiceProfileId	+	M	M	0
networkAccessMode	+	M	M	M
basicMSISDNIndicator	+	0	M	M
mSISDNAlertIndicator	+	0	M	M
vLRNumber	+	M	M	IVI
mSCNumber		M	M	-
	+			-
subscriptionRestriction	+	0	M	M
rSZIlists	+	0	M	M
mSCAreaRestrictedFlag	+	M	M	-
oDBinducedBarringData	+	0	M	-
roamingRestrictionDueToUnsupportedFeature	+	M	М	-
lSAIdentity	+	0	M	M
lSAPriority	+	0	M	M
lSAPreferentialAccessIndicator	+	0	M	M
lSAActiveModeSupportIndicator	+	0	M	M
lSAOnlyAccessIndicator	+	0	M	M
lSAActiveModeIndicator	+	0	M	M
vPLMNIdentifier	+	0	M	М
accessRestrictionData	+	0	М	М
privacyExceptionList	+	0	M	M
gMLCNumbers	+	0	M	M
mOLRList	+	0	M	M
serviceTypes		0	M	M
ageIndicator	+	0	M	
sGSNNumber	+			-
	+	M	M	-
gGSNNumber	+	0	M	M
sGSNarearestrictedflag	+	M	M	-
roamingRestrictedintheSGSNduetounsupportedfeature	+	M	М	-
mNRG	+	M	M	-
traceActivatedinSGSN	+	0	M	-
provisionofTeleservice	+	0	M	M
transferofSMoption	+	M	M	M
mSpurgedforGPRSflag	+	M	M	-
barringofPacketOrientedServices	+	0	M	M
pDPType	+	0	M	M
pDPAddress	+	0	M	М
accessPointName	+	0	М	М
vPLMNAddressAllowed	+	0	М	М
qGSNlist	+	M	M	-
qualityofServiceSubscribed	+	0	M	М
pDPContextIdentifier	+	0	M	- 101
pDPContextChargingCharacteristics	+	0	M	М
gPRSCAMELSubscriptionInformationGPRSCSI	+	0	M	M
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI		0	M	
mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI	+	0	M	M M
mOSMSCSISGSNNegotiatedCAMELCapabilityHandling	+	0		
mCSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling	+		M	M
	+	0	M	M
mobilityManagementforGPRSeventnotificationMGCSI	+	0	M	M
mGCSINegotiatedCAMELCapabilityHandling	+	0	M	M
gPRSCSINegotiatedCAMELCapabilityHandling	+	0	М	-
sGSNSupportedCAMELPhases	+	0	М	-
sGSNOfferedCAMEL4CSIs	+	0	M	-
gsmSCFaddressforCSI	+	0	M	М
subscribedChargingCharacteristics	+	0	М	M
w-APN	+	0	М	M
listofauthorizedvisitednetworkidentifiers	+	0	М	М
3GPPAAAServerName	+	Ö	M	-
wLANUERemoteIPaddress	+	0	M	М
wLANAccess	+	0	M	M
wLANTunnelling	+	0	M	M
wLANDirectIPAccess		0	M	M
#PTTTDTT COUTTIOOCOD	+		IVI	IVI

wAPNAuthorised	+	0	M	М
w-APNBarringType	+	0	М	М
w-APNChargingData	+	0	М	М
wLANUERemoteIPAddress	+	0	М	М
accessIndependenceFlag	+	0	М	M
i-WLANAccessType	+	0	M	М
chargingData	+	0	M	М
chargingCharacteristics	+	0	M	М
primaryOCSChargingFunctionName	+	0	M	М
secondaryOCSChargingFunctionName	+	0	M	М
primaryChargingCollectionFunctionName	+	0	M	М
secondaryChargingCollectionFunctionName	+	0	M	М
TraceReference2	+	0	M	-
TraceDepth	+	0	M	-
ListofNeTypestoTrace	+	0	M	-
TriggeringEvents	+	0	M	-
ListofInterfacestoTrace	+	0	М	-

#### 6.3.13.3 Attribute constraints

#### The optional attributes:

```
3GPPAAAServerName
accessIndependenceFlag
accessPointName
accessRestrictionData
ageIndicator
barringofPacketOrientedServices
basicMSISDNIndicator
chargingCharacteristics
chargingData
gGSNNumber
gMLCNumbers
gPRSCAMELSubscriptionInformationGPRSCSI
gPRSCSINegotiatedCAMELCapabilityHandling
gsmSCFaddressforCSI
i-WLANAccessType
listofauthorizedvisitednetworkidentifiers
lSAActiveModeIndicator
lSAActiveModeSupportIndicator
lSAIdentity
lSAOnlyAccessIndicator
lSAPreferentialAccessIndicator
1SAPriority
mGCSINegotiatedCAMELCapabilityHandling
mobilityManagementforGPRSeventnotificationMGCSI
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI
mOSMSCSISGSNNegotiatedCAMELCapabilityHandling
mSISDNAlertIndicator
mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI
mTSMSCSISGSNNegotiatedCAMELCapabilityHandling
oDBinducedBarringData
pDPAddress
pDPContextChargingCharacteristics
pDPContextIdentifier
pDPType
\verb"primaryChargingCollectionFunctionName"
primaryOCSChargingFunctionName
privacyExceptionList
provisionofTeleservice
qualityofServiceSubscribed
```

```
rSZIlists
{\tt secondaryChargingCollectionFunctionName}
secondaryOCSChargingFunctionName
serviceTypes
sGSNOfferedCAMEL4CSIs
sGSNSupportedCAMELPhases
\verb|subscribedChargingCharacteristics|\\
subscriptionRestriction
vPLMNAddressAllowed
vPLMNIdentifier
w-APN
wAPNAuthorised
w-APNBarringType
w-APNChargingData
wLANAccess
wLANDirectIPAccess
wLANTunnelling
wLANUERemoteIPaddress
wLANUERemoteIPAddress
```

shall be supported for the following criteria: The NE supports the parameter (see TS 23.008 [7]).

#### 6.3.14 IMSServiceProfile

#### 6.3.14.1 Definition

In this management context:

a) This class represents for a subscribed ims (see 3GPP TS 23.008 [7]) service the service preferences and settings chosen for a user.

#### 6.3.14.2 Attributes

#### Attributes of IMSServiceProfile

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
iMSServiceProfileId	+	М	М	0
barringIndication	+	М	М	M
listofauthorizedvisitednetworkidentifiers	+	М	М	M
registrationStatus	+	М	М	M
sCSCFName	+	М	М	M
diameterClientAddressofSCSCF	+	М	М	-
serverCapabilities	+	0	М	M
subscribedMediaProfileIdentifier	+	0	М	M
initialFilterCriteria	+	0	М	M
applicationServerInformation	+	0	М	M
serviceIndication	+	М	М	M
primaryEventChargingFunctionName	+	0	М	M
secondaryEventChargingFunctionName	+	0	М	M
primaryChargingCollectionFunctionName	+	М	М	M
secondaryChargingCollectionFunctionName	+	0	М	M
gsmSCFaddressforIMCSI	+	0	М	M
iMSSFaddressforIMCSI	+	0	М	-
oIMCSI	+	0	М	M
vTIMCSI	+	0	М	M
dIMCS	+	0	М	M
gAAServiceType	+	0	М	M
gAAServiceIdentifier	+	0	М	M
gBAUserSecuritySettings	+	0	М	M
userSecuritySetting	+	0	М	M
userPublicIdentity	+	0	М	M
gAAAuthorizationflag	+	0	М	M
keyLifetime	+	0	М	M
uICCSecuritySetting	+	0	М	M
nAFGroupIdentity	+	0	М	M

#### 6.3.14.3 Attribute constraints

The optional attributes shall be supported for the following criteria: The NE supports the parameter (see TS 23.008 [7]).

#### 6.3.15 ServiceProviderFunction

#### 6.3.15.1 Definition

In this management context:

- a) This class represents service provider functionality.
- b) All managed elements related with providing services have this functionality.
- c) It carries references to all services to be provided.
- d) It inherits from ManagedFunction (defined in 32.622 [6]).

#### 6.3.15.2 Attributes

#### Attributes of ServiceProviderFunction

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
serviceProviderFunctionId	+	M	M	-
userLabel	+	M	М	М

## 6.3.16 SubscriptionFunction

#### 6.3.16.1 Definition

In this management context:

- a) This class represents subscription functionality.
- b) All managed elements related with the subscription of services have this functionality.
- c) It carries references to all subscription profile data.
- d) It carries references to all Subscriber data
- e) It inherits from ManagedFunction (defined in 32.622 [6]).

#### 6.3.16.2 Attributes

#### Attributes of SubscriptionFunction

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
subscriptionFunctionId	+	M	M	-
userLabel	+	M	M	М

## 6.3.17 SuMCSSupplService

#### 6.3.17.1 Definition

In this management context:

- a) This class represents a Supplementary Service for a CS service (see 3GPP TS 23.008 [7]) provided by a service provider
- b) This class contains the valid parameters that define the CS supplementary service from subscription point of view.

#### 6.3.17.2 Attributes

#### Attributes of SuMCSSupplService

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
sS-Code	+	М	M	M
provisioningState	+	М	M	M
activationState	+	М	M	M
registrationState	+	0	M	M
overrideCategory	+	0	M	M
cLIRestrictionOption	+	0	M	M
forwarded-toNumber	+	0	M	M
forwarded-toSubaddress	+	0	M	M
noReplyConditionTimer	+	0	M	M
maximumEntitledPriority	+	0	M	M
defaultPriority	+	0	M	M
nbrUser	+	0	M	M
nbrSB	+	0	M	M

#### 6.3.17.3 Attribute constraints

The optional attributes shall be supported for the following criteria: The NE supports the parameter (see TS 23.008 [7]).

## 6.3.18 SuMPSSupplService

#### 6.3.18.1 Definition

In this management context:

- a) This class represents a Supplementary Service for a PS service (see 3GPP TS 23.008 [7]) provided by a service provider
- b) This class contains the valid parameters that define the PS supplementary service from subscription point of view.

#### 6.3.18.2 Attributes

#### Attributes of SuMPSSupplService

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
sS-Code	+	M	M	M
provisioningState	+	M	M	M
activationState	+	M	M	M

#### 6.3.18.3 Attribute constraints

The optional attributes shall be supported for the following criteria: The NE supports the parameter (See TS 23.008 [7]).

## 6.4 Information relationship definitions

## 6.4.1 Agreement

#### 6.4.1.1 Definition

This represents the agreement relationship between SuMService and SuMSubscribedService.

#### 6.4.1.2 Roles

Name	Definition					
contract	The SuMSubscribedService represents an agreed contract for a SuMService.					
offer	The SumService represents an offer of an agreement to a SumSubscribedService.					

## 6.4.1.3 Constraints

-

## 6.4.2 Description

#### 6.4.2.1 Definition

 $This \ represents \ the \ content \ relationship \ between \ {\tt SuMSubscriptionProfile} \ and \ {\tt SuMServiceProfile}.$ 

#### 6.4.2.2 Roles

Name	Definition
specification	SuMSubscribedService acts as the specification for the description of SuMServiceProfile.
service	SuMServiceProfile acts as the service specified in the description.

6.4.2.3 Constraints

\_

# 6.5 Information attribute definitions

# 6.5.1 Definitions and legal values

The following table defines the attributes that are present in several IOCs of the present document.

#### **Attributes**

Attribute Name	Definition	Legal Values
iMSServiceId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IMSService object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
csserviceId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the CSService object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
pSServiceId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the PSService object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
cSServiceProfileId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the CSServiceProfile object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
pSServiceProfileId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the PSServiceProfile object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
iMSServiceProfileId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IMSServiceProfile object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
cSSubscribedServiceId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the CSSubscribedService object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	

pSSubscribedServiceId	An attribute whose 'name+value'
	can be used as an RDN when
	naming an instance of the
	PSSubscribedService object class.
	This RDN uniquely identifies the
	object instance within the scope of
	its containing (parent) object
	instance.
iMSSubscribedServiceId	An attribute whose 'name+value'
11.05 0.05 01 1.0 0.0 01 1.1 0.0 1.0	can be used as an RDN when
	naming an instance of the
	IMSSubscribedService object
	class. This RDN uniquely identifies
	the object instance within the
	scope of its containing (parent)
	object instance.
suMSubscriptionProfileId	An attribute whose 'name+value'
SumsubscriptionProfitera	
	can be used as an RDN when
	naming an instance of the
	SuMSubscriptionProfile object
	class. This RDN uniquely identifies
	the object instance within the
	scope of its containing (parent)
u mant ale al	object instance.
userLabel	A user-friendly (and user
	assigned) name of the associated
	object. Inherited from
	ManagedFunction.
agreement-contract	Models the agreement relationship
	to a subscribed service. This
	attribute contains a list of the
	DN(s) of the related
	SuMSubscribedService
	instance(s).
agreement-offer	Models the agreement relationship
	to a service. An attribute whose
	'name+value' can be used as DN
	when referencing an instance of
	the SumService object class.
description-service	Models the description relationship
	to a service profile. This attribute
	contains a list of the DN(s) of the
	related SuMServiceProfile
	instance(s).
description-specification	Models the description relationship
	to a subscribed service. An
	attribute whose 'name+value' can
	be used as DN when referencing
	an instance of the
	an instance of the SuMSubscribedService object
iMSI	SuMSubscribedService object
iMSI networkAccessMode	SuMSubscribedService <b>object</b> class.
	SuMSubscribedService Object class. 23.008 clause 2.1.1.1 23.008 clause 2.1.1.2
networkAccessMode mSISDN	SuMSubscribedService object class. 23.008 clause 2.1.1.1 23.008 clause 2.1.1.2 23.008 clause 2.1.2
networkAccessMode	SuMSubscribedService object class. 23.008 clause 2.1.1.1 23.008 clause 2.1.1.2 23.008 clause 2.1.2 23.008 clause 2.1.3
networkAccessMode mSISDN multinumberingMSISDNs	SuMSubscribedService object class. 23.008 clause 2.1.1.1 23.008 clause 2.1.1.2 23.008 clause 2.1.2 23.008 clause 2.1.3 23.008 clause 2.1.3
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networkAccessMode mSISDN multinumberingMSISDNs basicMSISDNIndicator mSISDNAlertIndicator lMSI	SuMSubscribedService object class.  23.008 clause 2.1.1.1 23.008 clause 2.1.2 23.008 clause 2.1.2 23.008 clause 2.1.3 23.008 clause 2.1.3.1 23.008 clause 2.1.3.1 23.008 clause 2.1.3.2 23.008 clause 2.1.8
networkAccessMode mSISDN multinumberingMSISDNs basicMSISDNIndicator mSISDNAlertIndicator lMSI mobileStationCategory	SuMSubscribedService object class.  23.008 clause 2.1.1.1 23.008 clause 2.1.2 23.008 clause 2.1.2 23.008 clause 2.1.3 23.008 clause 2.1.3.1 23.008 clause 2.1.3.1 23.008 clause 2.1.3.2 23.008 clause 2.1.8 23.008 clause 2.2.1
networkAccessMode mSISDN multinumberingMSISDNs basicMSISDNIndicator mSISDNAlertIndicator lMSI mobileStationCategory lMUIdentifier	SuMSubscribedService object class.  23.008 clause 2.1.1.1 23.008 clause 2.1.2 23.008 clause 2.1.2 23.008 clause 2.1.3 23.008 clause 2.1.3.1 23.008 clause 2.1.3.1 23.008 clause 2.1.8.2 23.008 clause 2.1.8 23.008 clause 2.2.1
networkAccessMode mSISDN multinumberingMSISDNs basicMSISDNIndicator mSISDNAlertIndicator lMSI mobileStationCategory lMUIdentifier iMEISV	SuMSubscribedService object class.  23.008 clause 2.1.1.1 23.008 clause 2.1.2 23.008 clause 2.1.2 23.008 clause 2.1.3 23.008 clause 2.1.3.1 23.008 clause 2.1.3.1 23.008 clause 2.1.8.2 23.008 clause 2.1.8 23.008 clause 2.2.1 23.008 clause 2.2.1 23.008 clause 2.2.2 23.008 clause 2.2.2
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networkAccessMode mSISDN multinumberingMSISDNs basicMSISDNIndicator mSISDNAlertIndicator lMSI mobileStationCategory lMUIdentifier iMEISV subscriptionRestriction rSZIlists	SuMSubscribedService object class.  23.008 clause 2.1.1.1  23.008 clause 2.1.2.2  23.008 clause 2.1.2  23.008 clause 2.1.3  23.008 clause 2.1.3.1  23.008 clause 2.1.3.2  23.008 clause 2.1.8  23.008 clause 2.2.1  23.008 clause 2.2.1  23.008 clause 2.2.1  23.008 clause 2.2.2  23.008 clause 2.2.3  23.008 clause 2.4.10  23.008 clause 2.4.11.1
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1SAIdentity	23.008 clause 2.4.15.3 23.008 clause 2.4.17.1
lsaPriority	23.008 clause 2.4.17.1
ISAPreferentialAccessIndicator	23.008 clause 2.4.17.2A
lSAActiveModeSupportIndicator	23.008 clause 2.4.17.2B
lSAOnlyAccessIndicator	23.008 clause 2.4.17.2B
lSAActiveModeIndicator	23.008 clause 2.4.17.4
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mSCNumber	23.008 clause 2.4.6
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mSpurgedforGPRSflag	23.008 clause 2.7.6
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barringOfIncomingCalls	23.008 clause 2.8.2.2
barringOfRoaming	23.008 clause 2.8.2.3
barringOfPremiumRateCalls	23.008 clause 2.8.2.4
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barringOfRegistrationOfCallForwarding barringOfInvocationOfCallTransfer	23.008 clause 2.8.2.6
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vPLMNAddressAllowed	23.008 clause 2.13.8
originatingCAMELSubscriptionInformationOCSI	23.008 clause 2.14.1.1/3.1
gPRSCAMELSubscriptionInformationGPRSCSI	23.008 clause 2.14.1.10/2.14.4.4
dialledServiceCAMELSubscriptionInformationDCSI	23.008 clause 2.14.1.11/3.7
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terminatingCAMELSubscriptionInformationTCSI	23.008 clause 2.14.1.2
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translationInformationFlagTIFCSI	23.008 clause 2.14.1.5/3.2 23.008 clause 2.14.1.6/3.6
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gAAServiceType       23.008 clause 3A.1         gAAServiceIdentifier       23.008 clause 3A.2         gBAUserSecuritySettings       23.008 clause 3A.3         userSecuritySetting       23.008 clause 3A.4         userPublicIdentity       23.008 clause 3A.5         gAAAuthorizationflag       23.008 clause 3A.6         keyLifetime       23.008 clause 3A.8         uICCSecuritySetting       23.008 clause 3A.9         nAFGroupIdentity       23.008 clause 3A.11         w-APN       23.008 clause 3B.1.3         listofauthorizedvisitednetworkidentifiers       23.008 clause 3B.1.4         3GPPAAAServerName       23.008 clause 3B.1.6	vTIMCSI	23.008 clause 3.8.2	
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gAAServiceIdentifier       23.008 clause 3A.2         gBAUserSecuritySettings       23.008 clause 3A.3         userSecuritySetting       23.008 clause 3A.4         userPublicIdentity       23.008 clause 3A.5         gAAAuthorizationflag       23.008 clause 3A.6         keyLifetime       23.008 clause 3A.8         uICCSecuritySetting       23.008 clause 3A.9         nAFGroupIdentity       23.008 clause 3A.11         w-APN       23.008 clause 3B.1.3         listofauthorizedvisitednetworkidentifiers       23.008 clause 3B.1.4         3GPPAAAServerName       23.008 clause 3B.1.6	gAAServiceType		
gBAUserSecuritySettings       23.008 clause 3A.3         userSecuritySetting       23.008 clause 3A.4         userPublicIdentity       23.008 clause 3A.5         gAAAuthorizationflag       23.008 clause 3A.6         keyLifetime       23.008 clause 3A.8         uICCSecuritySetting       23.008 clause 3A.9         nAFGroupIdentity       23.008 clause 3A.11         w-APN       23.008 clause 3B.1.3         listofauthorizedvisitednetworkidentifiers       23.008 clause 3B.1.4         3GPPAAAServerName       23.008 clause 3B.1.6			
userSecuritySetting       23.008 clause 3A.4         userPublicIdentity       23.008 clause 3A.5         gAAAuthorizationflag       23.008 clause 3A.6         keyLifetime       23.008 clause 3A.8         uICCSecuritySetting       23.008 clause 3A.9         nAFGroupIdentity       23.008 clause 3A.11         w-APN       23.008 clause 3B.1.3         listofauthorizedvisitednetworkidentifiers       23.008 clause 3B.1.4         3GPPAAAServerName       23.008 clause 3B.1.6	gBAUserSecuritySettings		
userPublicIdentity       23.008 clause 3A.5         gAAAuthorizationflag       23.008 clause 3A.6         keyLifetime       23.008 clause 3A.8         uICCSecuritySetting       23.008 clause 3A.9         nAFGroupIdentity       23.008 clause 3A.11         w-APN       23.008 clause 3B.1.3         listofauthorizedvisitednetworkidentifiers       23.008 clause 3B.1.4         3GPPAAAServerName       23.008 clause 3B.1.6			
gAAAuthorizationflag       23.008 clause 3A.6         keyLifetime       23.008 clause 3A.8         uICCSecuritySetting       23.008 clause 3A.9         nAFGroupIdentity       23.008 clause 3A.11         w-APN       23.008 clause 3B.1.3         listofauthorizedvisitednetworkidentifiers       23.008 clause 3B.1.4         3GPPAAAServerName       23.008 clause 3B.1.6			
keyLifetime       23.008 clause 3A.8         uICCSecuritySetting       23.008 clause 3A.9         nAFGroupIdentity       23.008 clause 3A.11         w-APN       23.008 clause 3B.1.3         listofauthorizedvisitednetworkidentifiers       23.008 clause 3B.1.4         3GPPAAAServerName       23.008 clause 3B.1.6	_	•	
uICCSecuritySetting       23.008 clause 3A.9         nAFGroupIdentity       23.008 clause 3A.11         w-APN       23.008 clause 3B.1.3         listofauthorizedvisitednetworkidentifiers       23.008 clause 3B.1.4         3GPPAAAServerName       23.008 clause 3B.1.6			
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3GPPAAAServerName 23.008 clause 3B.1.6			
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WLANUERemotelPaddress   23.008 clause 3B.1.10			
wLANAccess 23.008 clause 3B.5.1			
wLANTunnelling 23.008 clause 3B.5.2	_		
wLANDirectIPAccess 23.008 clause 3B.5.3			
wAPNAuthorised 23.008 clause 3B.5.4	wAPNAuthorised	23.008 clause 3B.5.4	

w-APNBarringType	23.008 clause 3B.5.4.2	
w-APNChargingData	23.008 clause 3B.5.4.2	
wLANUERemoteIPAddress	23.008 clause 3B.5.4.4	
accessIndependenceFlag	23.008 clause 3B.5.4.4	
i-WLANAccessType	23.008 clause 3B.5.6	
chargingData	23.008 clause 3B.5.0	
chargingCharacteristics		
primaryOCSChargingFunctionName	23.008 clause 3B.7.1.1	
secondaryOCSChargingFunctionName	23.008 clause 3B.7.2	
	23.008 clause 3B.7.3	
primaryChargingCollectionFunctionName	23.008 clause 3B.7.4	
secondaryChargingCollectionFunctionName	23.008 clause 3B.7.5	
sS-Code	23.008 clause 2.6	
	29.002 clause 7.6.4.1	
provisioningState	23.008 clause 2.6	
	29.002 clause 7.6.4.2	
activationState	23.008 clause 2.6	
	29.002 clause 7.6.4.2	
registrationState	23.008 clause 2.6	
	29.002 clause 7.6.4.2	
overrideCategory	23.008 clause 2.6	
	29.002 clause 7.6.4.4	
cLIRestrictionOption	23.008 clause 2.6	
	29.002 clause 7.6.4.5	
forwarded-toNumber	23.008 clause 2.6	
	29.002 clause 7.6.4.6	
forwarded-toSubaddress	23.008 clause 2.6	
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noReplyConditionTimer	23.008 clause 2.6	
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maximumEntitledPriority	23.008 clause 2.6	
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defaultPriority	23.008 clause 2.6	
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nbrUser	23.008 clause 2.6	
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TraceReference2	23.008 Clause 2.11.9	
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ListofNeTypestoTrace	23.008 Clause 2.11.11	
TriggeringEvents	23.008 Clause 2.11.12	
ListofInterfacestoTrace	23.008 Clause 2.11.13	

# Annex A (informative): Change history

	Change history						
Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Dec 2003	S_22	SP-030617			Submitted to TSG SA#22 for Information	1.0.0	
Sep 2004	S_25	SP-040546			Submitted to TSG SA#25 for Approval	2.0.0	
Dec 2004	S_26	SP-040830			Submitted to TSG SA#26 for Approval	2.7.0	6.0.0
Mar 2005	S_27	SP-050024	0001		Add Generic Authentication Architecture (GAA) attributes – Align with CN4's 23.008 (Organisation of subscriber data)	6.0.0	6.1.0
Mar 2005	S_27	SP-050024	0002		Add Interworking WLAN (I-WLAN) parameters – Align with CN4's 23.008 (Organisation of subscriber data)	6.0.0	6.1.0
Mar 2005	S_27	SP-050024	0003		Add Supplementary Service attributes – Align with CN4's 23.008 (Organisation of subscriber data)	6.0.0	6.1.0
Jun 2005	SA_28	SP-050269	0004		Add Rel-6 trace parameters to SuM - align with CT4's TS 23.008 (Organisation of subscriber data)	6.1.0	6.2.0

# History

Document history					
V6.0.0	December 2004	Publication			
V6.1.0	March 2005	Publication			
V6.2.0	June 2005	Publication			