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Technical Specification

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Universal Mobile Telecommunications System (UMTS);
Telecommunication management;
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Network Resource Model (NRM)
Integration Reference Point (IRP):
Information Service (IS)
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Foreword

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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 3rd Generation Partnership Project: Technical Specification Group Services and System Aspects; Telecommunication management, as identified below:

TS 32.140:	"Subscription Management (SuM) requirements".
TS 32.141:	"Subscription Management (SuM) architecture".
TS 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

IOC	Information Object Class
IRP	Integration Reference Point
MOC	Managed Object Class
NE	Network Element
~ 3.5	0.1.1.3.6

SuM Subscription 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

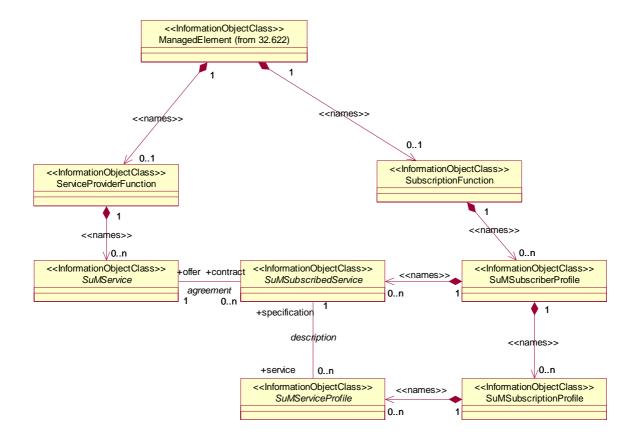
6.1 Imported information entities and local labels

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

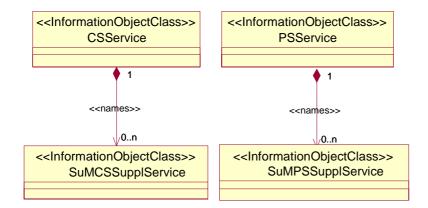


Figure 1.b: SuM Supplementary Service NRM Containment/Naming and Association diagram 1

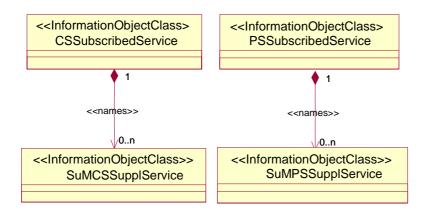


Figure 1.c: SuM Supplementary Service NRM Containment/Naming and Association diagram 2

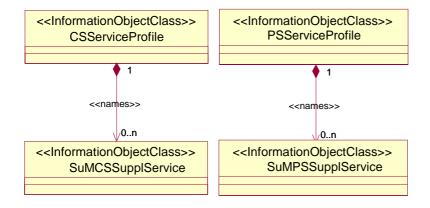


Figure 1.d: SuM Supplementary Service NRM Containment/Naming and Association diagram 3

6.2.2 Inheritance

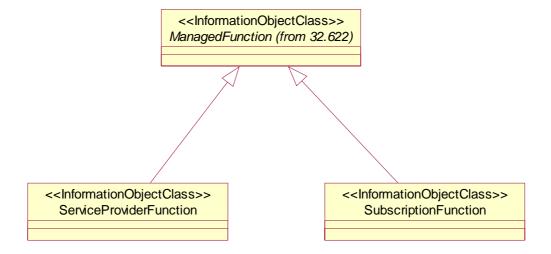


Figure 2a: SuM NRM Inheritance Hierarchy 1

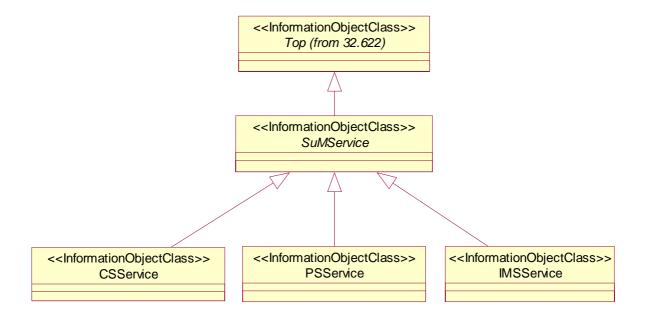


Figure 2b: SuM NRM Inheritance Hierarchy 2

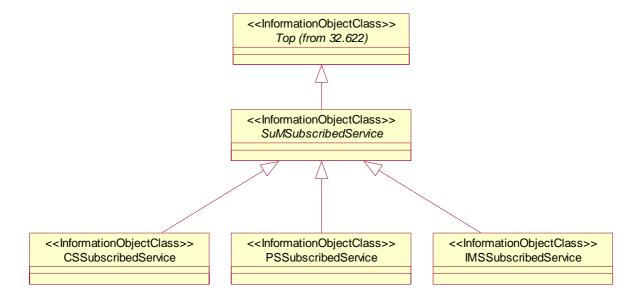


Figure 2c: SuM NRM Inheritance Hierarchy 3

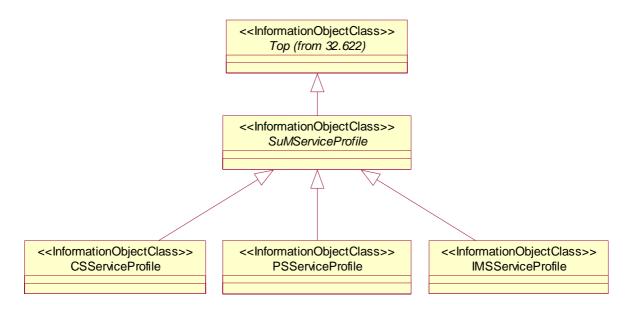


Figure 2d: SuM NRM Inheritance Hierarchy 4

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	+	М	М	М
basicMSISDNIndicator	+	0	М	M
mSISDNAlertIndicator	+	Ö	М	M
subscriptionRestriction	+	0	M	M
rSZIlists	+	Ö	M	M
lSAIdentity	+	Ö	M	M
lsaPriority	+	Ö	М	М
lSAPreferentialAccessIndicator	+	Ö	M	M
lSAActiveModeSupportIndicator	+	0	M	M
lSAOnlyAccessIndicator	+	0	M	M
lSAActiveModeIndicator	+	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
lMUIdentifier	+	M	M	M
subscriberStatus	+	M	M	M
gsmSCFaddresslistForODB	+	M	M	M
provisionOfBearerService	+	M	M	M
provisionOfTeleservice	+	M	M	M
bCAllocation	+	0	M	M
barringOfOutgoingCalls	+	0	M	M
barringOfIncomingCalls	+	0	M	M
barringOfRoaming	+	0	M	M
barringOfPremiumRateCalls	+	0	M	M
barringOfSupplementaryServiceManagement	+	0	M	M
barringOfRegistrationOfCallForwarding	+	0	M	M
barringOfInvocationOfCallTransfer	+	0	M	M
operatorDeterminedBarringPLMNspecificData	+	0	M	M
vGCSGroupMembershipList	+	0	M	M
vBSGroupMembershipList	+	0	M	M
broadcastCallInitiationAllowedList	+	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
qsmSCFaddressforCSI	+	0	M	M
iSTAlertTimer		0	M	M
cSAllocationRetentionpriority	+	0	M	M
CONTITOCACTOINCCCITCTORPLIOLICY	+	U	IVI	IVI

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	М
oIMCSI	+	0	М	М
vTIMCSI	+	0	М	М
dIMCS	+	0	М	М
gAAServiceType	+	0	М	М
gAAServiceIdentifier	+	0	М	М
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	М	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	Support Qualifier	Read Qualifier	Write Qualifier
cSSubscribedServiceId	+	М	М	-
networkAccessMode	+	М	M	M
basicMSISDNIndicator	+	0	М	М
mSISDNAlertIndicator	+	0	М	М
subscriptionRestriction	+	0	М	М
rSZIlists	+	0	М	М
lSAIdentity	+	0	М	М
lsAPriority	+	0	М	М
lSAPreferentialAccessIndicator	+	0	М	М
lSAActiveModeSupportIndicator	+	0	М	М
lSAOnlyAccessIndicator	+	0	М	М
lSAActiveModeIndicator	+	0	М	М
vPLMNIdentifier	+	Ö	М	M
accessRestrictionData	+	Ö	M	M
privacyExceptionList	+	Ö	M	M
gMLCNumbers	+	Ö	M	M
mOLRList	+	Ö	M	M
serviceTypes	+	0	M	M
mobileStationCategory	+	M	M	M
lMUIdentifier	+	M	M	M
subscriberStatus	+	M	M	M
gsmSCFaddresslistForODB	+	M	M	M
provisionOfBearerService	+	M	M	M
provisionOfTeleservice	+	M	M	M
bCAllocation	+	0	M	M
barringOfOutgoingCalls	+	0	M	M
barringOfIncomingCalls	+	0	M	M
barringOfRoaming	+	0	M	M
barringOfPremiumRateCalls	+	0	M	M
barringOfSupplementaryServiceManagement	+	0	M	M
barringOfRegistrationOfCallForwarding	+	0	M	M
barringOfInvocationOfCallTransfer	+	0	M	M
operatorDeterminedBarringPLMNspecificData	+	0	M	M
vGCSGroupMembershipList	+	0	M	M
vBSGroupMembershipList	+	0	M	M
broadcastCallInitiationAllowedList	+	0	M	M
originatingCAMELSubscriptionInformationOCSI	+	0	M	M
terminatingCAMELSubscriptionInformationTCSI	+	0	M	M
vMSCTerminatingCAMELSubscriptionInformationVTCSI	+	0	M	M
locationInformation/SubscriberStateInformation				
uSSDCAMELSubscriptionInformationUCSI	+	0	M M	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
qsmSCFaddressforCSI	+	0	M	M
iSTAlertTimer	+	0		
cSAllocationRetentionpriority	+	_	M	M
CONTINCACIONACCENCIONALIOLICA	+	0	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	М
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	M
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	M	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	М	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	+	M	М	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.

6.3.11.2 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

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
cSServiceProfileId	+	M	М	0
networkAccessMode	+	M	М	М
basicMSISDNIndicator	+	0	М	M
mSISDNAlertIndicator	+	0	М	М
vLRNumber	+	М	М	-
mSCNumber	+	M	М	-
subscriptionRestriction	+	0	М	М
rSZIlists	+	0	М	М
mSCAreaRestrictedFlag	+	М	М	-
oDBinducedBarringData	+	0	М	-
roamingRestrictionDueToUnsupportedFeature	+	М	М	-
lSAIdentity	+	0	М	М
lsAPriority	+	0	М	М
lSAPreferentialAccess Indicator	+	0	М	М
lSAActiveModeSupportIndicator	+	0	М	М
lSAOnlyAccessIndicator	+	0	М	М
lSAActiveModeIndicator	+	0	М	М
vPLMNIdentifier	+	0	М	М
accessRestrictionData	+	0	М	М
privacyExceptionList	+	0	М	М
gMLCNumbers	+	0	М	М
mOLRList	+	0	М	М
serviceTypes	+	0	М	М
ageIndicator	+	0	М	-
lmsi	+	М	М	-
mobileStationCategory	+	М	М	М
lMUIdentifier	+	М	М	М
mNRR	+	М	М	-
subscriberStatus	+	М	М	М
notificationToCSEFlagForODB	+	М	М	-
gsmSCFaddresslistForODB	+	М	М	М

		Support	Read	Write
Attribute name	Visibility	Qualifier	Qualifier	Qualifier
messagesWaitingData	+	М	М	-
mobileStationNotReachableFlag	+	М	М	-
memoryCapacityExceededFlag	+	М	М	-
traceReference	+	0	М	-
traceType	+	0	М	-
operationsSystemsIdentity	+	0	М	-
hLRTraceType	+	0	М	-
mAPErrorOnTrace	+	0	М	-
traceActivatedInVLR	+	0	М	-
provisionOfBearerService	+	M	М	М
provisionOfTeleservice	+	М	М	М
bCAllocation	+	0	M	М
checkSSIndicator	+	M	M	-
mSPurgedForNonGPRSFlag	+	M	M	-
barringOfOutgoingCalls	+	0	M	М
barringOfIncomingCalls	+	Ö	M	M
barringOfRoaming	+	0	M	M
barringOfPremiumRateCalls	+	0	M	M
barringOfSupplementaryServiceManagement	+	Ö	M	M
barringOfRegistrationOfCallForwarding	+	0	M	M
barringOfInvocationOfCallTransfer	+	0	M	M
operatorDeterminedBarringPLMNspecificData	+	0	M	M
vGCSGroupMembershipList	+	0	M	M
vBSGroupMembershipList	+	0	M	M
broadcastCallInitiationAllowedList	+	0	M	M
originatingCAMELSubscriptionInformationOCSI	+	0	M	M
terminatingCAMELSubscriptionInformationTCSI	+	0	M	M
vMSCTerminatingCAMELSubscriptionInformationVTCSI	+	0	M	M
locationInformationSubscriberStateInformation	+	0	M	M
uSSDCAMELSubscriptionInformationUCSI	+	0	M	M
sSInvocationNotificationSSCSI	+	Ö	M	M
translationInformationFlagTIFCSI	+	0	M	M
dialledServiceCAMELSubscriptionInformationDCSI	+	0	M	M
uSSDGeneralCAMELServiceInformationUGCSI	+	0	M	M
oCSINegotiatedCAMELCapabilityHandling	+	0	M	-
sSCSINegotiatedCAMELCapabilityHandling	+	0	M	_
vTCSINegotiatedCAMELCapabilityHandling	+	0	M	_
shortMessageServiceCAMELSubscriptionInformationMOSMSCSI	+	0	M	М
shortMessageServiceCAMELSubscriptionInformationMTSMSCSI	+	0	M	M
mOSMSCSIVLRNegotiatedCAMELCapabilityHandling	+	0	M	-
mTSMSCSIVLRNegotiatedCAMELCapabilityHandling	+	0	M	М
mCSINegotiatedCAMELCapabilityHandling	+	0	M	-
vLRSupportedCAMELPhases	+	0	M	
gsmSCFaddressforCSI	+	0	M	M
vLROfferedCAMEL4CSIs	+	0	M	IVI
iSTAlertTimer	+	0	M	M
cSAllocationRetentionpriority	+	0	M	M
TraceReference2	+	0	M	- 171
TraceDepth	+	0	M	
ListofNeTypestoTrace	+	0	M	-
TriggeringEvents	+	0	M	
ListofInterfacestoTrace	+	0	M	-
	Г Г		IVI	_

6.3.12.3 Attribute constraints

The optional attributes:

accessRestrictionData ageIndicator barringOfIncomingCalls barringOfInvocationOfCallTransfer barringOfOutgoingCalls barringOfPremiumRateCalls barringOfRegistrationOfCallForwarding barringOfRoaming barring Of Supplementary Service ManagementbasicMSISDNIndicator bCAllocation bCAllocation broadcastCallInitiationAllowedList cSAllocationRetentionpriority dialledServiceCAMELSubscriptionInformationDCSI **qMLCNumbers** qsmSCFaddressforCSI iSTAlertTimer ${\tt locationInformationSubscriberStateInformation}$ lSAActiveModeIndicator ${\tt lSAActive Mode Support Indicator}$ **1SAIdentity** lSAOnlyAccessIndicator lSAPreferentialAccess Indicator **1SAPriority** mCSINegotiatedCAMELCapabilityHandling mOLRList mOSMSCSIVLRNegotiatedCAMELCapabilityHandling mSISDNAlertIndicator ${\tt mTSMSCSIVLRNegotiatedCAMELCapabilityHandling}$ oCSINegotiatedCAMELCapabilityHandling oDBinducedBarringData operatorDeterminedBarringPLMNspecificData originatingCAMELSubscriptionInformationOCSI privacyExceptionList rSZIlists serviceTypes shortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI sSCSINegotiatedCAMELCapabilityHandling sSInvocationNotificationSSCSI subscriptionRestriction terminatingCAMELSubscriptionInformationTCSI 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	M
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	M	-
sGSNSupportedCAMELPhases	+	0	М	-
sGSNOfferedCAMEL4CSIs	+	0	M	-
gsmSCFaddressforCSI	+	0	M	М
subscribedChargingCharacteristics	+	0	М	М
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

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
wAPNAuthorised	+	0	М	М
w-APNBarringType	+	0	M	М
w-APNChargingData	+	0	M	М
wLANUERemoteIPAddress	+	0	М	M
accessIndependenceFlag	+	0	М	M
i-WLANAccessType	+	0	М	M
chargingData	+	0	М	M
chargingCharacteristics	+	0	М	M
primaryOCSChargingFunctionName	+	0	М	M
secondaryOCSChargingFunctionName	+	0	М	М
primaryChargingCollectionFunctionName	+	0	М	M
secondaryChargingCollectionFunctionName	+	0	М	M
TraceReference2	+	0	М	-
TraceDepth	+	0	М	-
ListofNeTypestoTrace	+	0	М	-
TriggeringEvents	+	0	М	-
ListofInterfacestoTrace	+	0	М	-

6.3.13.3 Attribute constraints

The optional attributes:

```
3GPPAAAServerName
accessIndependenceFlag
accessPointName
accessRestrictionData
ageIndicator
barringofPacketOrientedServices
basicMSISDNIndicator
chargingCharacteristics
chargingData
gGSNNumber
gMLCNumbers
qPRSCAMELSubscriptionInformationGPRSCSI
gPRSCSINegotiatedCAMELCapabilityHandling
qsmSCFaddressforCSI
i-WLANAccessType
listofauthorizedvisitednetworkidentifiers
lSAActiveModeIndicator
lSAActiveModeSupportIndicator
1SAIdentity
lSAOnlyAccessIndicator
lSAPreferentialAccessIndicator
1SAPriority
{\tt mGCSINegotiatedCAMELCapabilityHandling}
\verb|mobil| ity \verb|ManagementforGPRS| event notification \verb|MGCSI|
mOLRList
\verb|mOS| hort \verb|MessageServiceCAMELS| ubscription Information \verb|MOSMSCSI||
{\tt mOSMSCSISGSNNegotiatedCAMELCapabilityHandling}
mSISDNAlertIndicator
\verb|mTS| hort \verb|MessageServiceCAMELS| ubscription Information \verb|MTSMSCSI| |
mTSMSCSISGSNNegotiatedCAMELCapabilityHandling
oDBinducedBarringData
pDPAddress
pDPContextChargingCharacteristics
pDPContextIdentifier
pDPType
primaryChargingCollectionFunctionName
primaryOCSChargingFunctionName
privacyExceptionList
```

```
provisionofTeleservice
{\tt quality of Service Subscribed}
rSZIlists
{\tt secondaryChargingCollectionFunctionName}
{\tt secondaryOCSChargingFunctionName}
serviceTypes
sGSNOfferedCAMEL4CSIs
{\tt sGSNSupportedCAMELPhases}
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	+	M	М	0
barringIndication	+	M	М	M
listofauthorizedvisitednetworkidentifiers	+	M	M	M
registrationStatus	+	M	М	M
sCSCFName	+	M	М	M
diameterClientAddressofSCSCF	+	М	М	-
serverCapabilities	+	0	М	M
subscribedMediaProfileIdentifier	+	0	М	M
initialFilterCriteria	+	0	М	M
applicationServerInformation	+	0	М	M
serviceIndication	+	M	М	M
primaryEventChargingFunctionName	+	0	М	M
secondaryEventChargingFunctionName	+	0	М	M
primaryChargingCollectionFunctionName	+	M	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	М
nAFGroupIdentity	+	0	М	М

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	М	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	+	M	M	M
provisioningState	+	M	M	M
activationState	+	M	M	M
registrationState	+	0	M	M
overrideCategory	+	0	M	M
cLIRestrictionOption	+	0	M	M
forwarded-toNumber	+	0	М	M
forwarded-toSubaddress	+	0	M	M
noReplyConditionTimer	+	0	М	М
maximumEntitledPriority	+	0	М	М
defaultPriority	+	0	М	M
nbrUser	+	0	М	M
nbrSB	+	0	М	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 SumsubscribedServ				

6.4.1.3 Constraints

-

6.4.2 Description

6.4.2.1 Definition

This represents the content relationship between SuMSubscriptionProfile and SuMServiceProfile.

6.4.2.2 Roles

Name	e 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' 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.	
suMSubscriberProfileId	An attribute whose 'name+value' can be used as an RDN when naming an	
	instance of the SuMSubscriberProfile object class. This RDN uniquely	
	identifies the object instance within the scope of its containing (parent) object	
	instance.	
suMSubscriberProfileInfo		
	with free structure and format.	
suMSubscriptionProfileId		
_	instance of the SuMSubscriptionProfile object class. This RDN uniquely	
	identifies the object instance within the scope of its containing (parent) 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	
GCPCLIDCTOIL-PELVICE		
description-	a list of the DN(s) of the related SuMServiceProfile instance(s).	
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	
	SuMSubscribedService object class.	

INST	Attribute Name	Definition	Legal Values
InstrumeringMISIBDNs	iMSI	23.008 clause 2.1.1.1	100000
MISTEDN 23.008 clause 2.1.2 multinumberingNSTSDNs 23.008 clause 2.1.3 musticNSININIndicator 23.008 clause 2.1.3 musticNSININIndicator 23.008 clause 2.1.3 musticNSININININICATOR 23.008 clause 2.1.3 musticNSININININININININININININININININININI	networkAccessMode		
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Dasic MSISUNI Indicator 23.006 clause 21.3.1	multinumberingMSISDNs		
MISTALLE			
INST			
mobileStationCategory			
INUIDENCY			
IMPLIST			
SubscriptionRestriction			
### ### ### ### ### ### ### ### ### ##			
### SCAPE CONTROLL ### SCAPE			
SSNNareareatrictedflag			
DBINDURGER 23.008 clause 2.4.15.1 coamingRestrictionDueToUnsupportedFeature 23.008 clause 2.4.15.2 coamingRestrictedIntheSGSNduetounsupportedfeature 23.008 clause 2.4.17.3 1SATeintity 23.008 clause 2.4.17.2 1SAPriority 23.008 clause 2.4.17.3 1SAPRIORITY 23.008 clause 2.4.17.3 1SAPRIORITY 23.008 clause 2.4.17.4 23.008 clause 2.4.17.4 23.008 clause 2.4.17.5 23.008 clause 2.4.17.5 23.008 clause 2.4.18 23.008 clause 2.4.19 23.008 clause 2.5.19 23.008 clause 2.5.19 23.008 clause 2.5.29			
roamingRestrictdonDucToUnsupportedFeature			
FamingRestrictedintheSGSNduetounsupportedfeature			
ISAIdentity			
ISAPriority			
ISAPteferentialAccessIndicator			
ISAActiveModeSupportIndicator			
ISAOnlyAccessIndicator 23.008 clause 2.4.17.3			
ISAActiveModeIndicator			
vPLMNIdentifier 23.008 clause 2.4.17.5 accessRestrictionData 23.008 clause 2.4.5 wSCNnumber 23.008 clause 2.4.6 mSCNnumber 23.008 clause 2.4.8.1 gGSNNumber 23.008 clause 2.4.8.2 provisionOfTeleserService 23.008 clause 2.4.8.2 provisionOfTeleservice 23.008 clause 2.5.2 bCAllocation 23.008 clause 2.5.4 mNRG 23.008 clause 2.5.4 mNRG 23.008 clause 2.7.2 checkSSIndicator 23.008 clause 2.7.2 checkSSIndicator 23.008 clause 2.7.5 mSpurgedForNonSPRSFlag 23.008 clause 2.7.5 mSpurgedforGRSflag 23.008 clause 2.7.5 mSpurgedforGRSflag 23.008 clause 2.8.1 barringOfOutgoingCalls 23.008 clause 2.8.2 barringOfIncomingCalls 23.008 clause 2.8.2.1 barringOfScmaing 23.008 clause 2.8.2.2 barringOfPremiumRateCalls 23.008 clause 2.8.2.3 barringOfIncomingCalls 23.008 clause 2.8.2.4 barringOfInvocationOfCallTransfer 23.008 clause 2.8.2.6 barringOfPremiumRateCalls 23.008 clause 2.8.2	-		
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vLRNumber 23.008 clause 2.4.5 mSCNumber 23.008 clause 2.4.6 sGSNNumber 23.008 clause 2.4.1 gGSNNumber 23.008 clause 2.4.2 provisionOfBearerService 23.008 clause 2.5.1 provisionOfTeleservice 23.008 clause 2.5.2 bCAllocation 23.008 clause 2.5.3 transferofSMoption 23.008 clause 2.7.2 checkSSIndicator 23.008 clause 2.7.2 mSPurgedForNonGRPSFlag 23.008 clause 2.7.5 mSpurgedforGPRSflag 23.008 clause 2.7.6 subscriberStatus 23.008 clause 2.8.1 barringOfLutgoingCalls 23.008 clause 2.8.1 barringOfRoaming 23.008 clause 2.8.2 barringOfFremiumRateCalls 23.008 clause 2.8.2.2 barringOfFremiumRateCalls 23.008 clause 2.8.2.5 barringOfRegistrationOfCallForwarding 23.008 clause 2.8.2.6 barringOfRegistrationOfCallForwarding 23.008 clause 2.8.2.6 barringOfPacketOrientedServices 23.008 clause 2.8.2.7 barringOfPacketOrientedServices 23.008 clause 2.8.3 operatorDeterminedBarringPLMNspecificData 23.008 clause 2.8.3 notific			
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GSNNumber 23.008 clause 2.48.2			
provisionOfBearerService 23.008 clause 2.5.1			
December 2008 2008	gGSNNumber	23.008 clause 2.4.8.2	
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Annex A (informative): Change history

	Change history							
Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	Cat	Old	New
Dec 2003	SA_22	SP-030617		-	Submitted to TSG SA#22 for Information		1.0.0	
Sep 2004	SA_25	SP-040546		1	Submitted to TSG SA#25 for Approval		2.0.0	
Dec 2004	SA_26	SP-040830			Submitted to TSG SA#26 for Approval		2.7.0	6.0.0
Mar 2005	SA_27	SP-050024	0001		Add Generic Authentication Architecture (GAA) attributes – Align with CN4's 23.008 (Organisation of subscriber data)	F	6.0.0	6.1.0
Mar 2005	SA_27	SP-050024	0002		Add Interworking WLAN (I-WLAN) parameters – Align with CN4's 23.008 (Organisation of subscriber data)	F	6.0.0	6.1.0
Mar 2005	SA_27	SP-050024	0003		Add Supplementary Service attributes – Align with CN4's 23.008 (Organisation of subscriber data)	F	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)	F	6.1.0	6.2.0
Mar 2006	SA_31	SP-060092	0005		Remove duplicate attributes in the Information Service (IS)	F	6.2.0	6.3.0
		SP-070269	0006		Add definition of missing attributes	F	6.3.0	6.4.0
Jun 2007	SA_36	SP-070269	0007		Add missing inheritance definitions	F	6.3.0	6.4.0
Jun 2007	SA_36				Automatic upgrade to Rel-7 (no CR) at freeze of Rel-7.		6.4.0	7.0.0

History

	Document history				
V7.0.0	June 2007	Publication			