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Technical Specification

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

Intelle	ectual Property Rights	2
Forew	word	2
Forew	word	5
Introd	duction	5
1	Scope	6
2	References	6
3 3.1 3.2	Definitions and abbreviations Definitions Abbreviations	6
4	Compliance rules	7
5	Modelling approach	7
6	Information Object Classes	7
6.1	Imported information entities and local labels	7
6.2	Class diagram	7
6.2.1	Attributes and relationships	7
6.2.2	Inheritance	9
6.3	Information Object Class definitions	10
6.3.1	SuMService	10
6.3.1.1	1 Definition	10
6.3.1.2	2 Attributes	11
6.3.2	CSService	11
6.3.2.1	1 Definition	11
6.3.2.2	2 Attributes	12
6.3.2.3	3 Attribute constraints	12
6.3.3	PSService	13
6.3.3.1	1 Definition	13
6.3.3.2	2 Attributes	14
6.3.3.3	3 Attribute constraints	15
6.3.4	IMSService	15
6.3.4.1	1 Definition	15
6.3.4.2		
6.3.4.3		
6.3.5	SuMSubscribedService	
6.3.5.1		
6.3.5.2		16
6.3.6	CSSubscribedService	16
6.3.6.1		
6.3.6.2		
6.3.6.3		
6.3.7	PSSubscribedService	
6.3.7.1		
6.3.7.2		
6.3.7.3		
6.3.8	IMSSubscribedService	
6.3.8.1		
6.3.8.2		
6.3.8.3		
6.3.9	SuMSubscriberProfile	
6.3.9.1		
6.3.9.2		
6.3.10		

History.	History					
Annex A	A (informative): Change history	36				
6.5.1	Definitions and legal values	31				
6.5		31				
6.4.2.3		31				
6.4.2.2		31				
6.4.2.1		31				
6.4.2		31				
6.4.1.3		30				
6.4.1.2		30				
6.4.1.1		30				
6.4.1		30				
6.4		30				
6.3.18.3		30				
6.3.18.2		30				
6.3.18.1		30				
6.3.18		30				
6.3.17.3		29				
6.3.17.2		29				
6.3.17.1		29				
6.3.17		29				
6.3.16.2		29				
6.3.16.1		29				
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6.3.15.2		28				
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6.3.13.3		26				
6.3.13.2		25				
6.3.13.1		24				
6.3.13		24				
6.3.12.3		23				
6.3.12.2		22				
6.3.12.1		22				
6.3.12		22				
Attribute						
6.3.11.1		21				
6.3.11		21				
6.3.10.3		21				
6.3.10.2		21				
6.3.10.1		21				

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
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

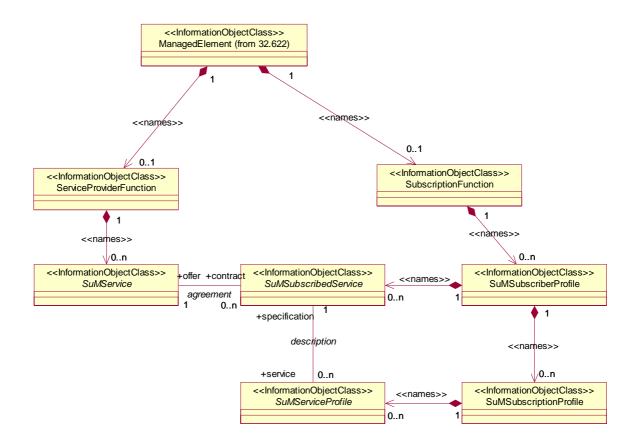
6.1 Imported information entities and local labels

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

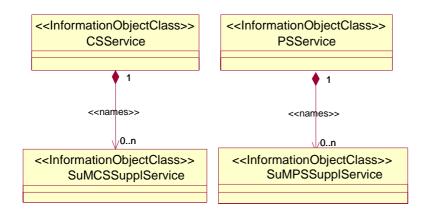


Figure 1.b: SuM Supplementary Service NRM Containment/Naming and Association diagram 1

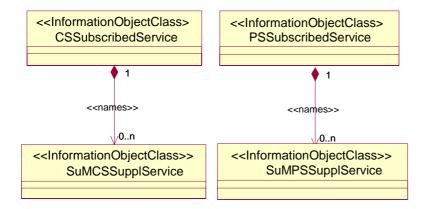


Figure 1.c: SuM Supplementary Service NRM Containment/Naming and Association diagram 2

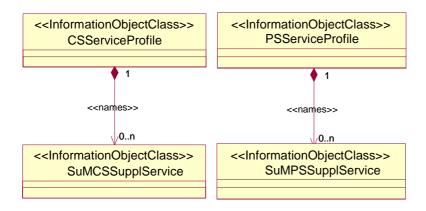


Figure 1.d: SuM Supplementary Service NRM Containment/Naming and Association diagram 3

6.2.2 Inheritance

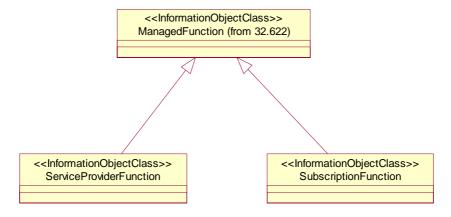


Figure 2a: SuM NRM Inheritance Hierarchy 1

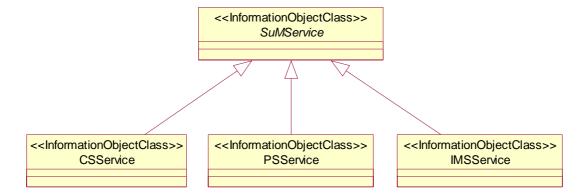


Figure 2b: SuM NRM Inheritance Hierarchy 2

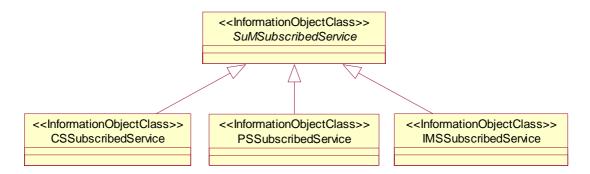


Figure 2c: SuM NRM Inheritance Hierarchy 3

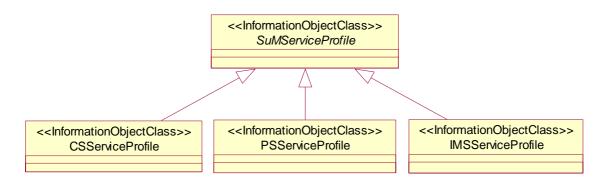


Figure 2d: SuM NRM Inheritance Hierarchy 4

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

SSERVICET	Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
BasicWSISDNIndicator	cSServiceId	+	М	М	-
BasicMSISDNIndicator	networkAccessMode		М	М	М
SubscriptionRestriction	basicMSISDNIndicator	+			М
SubscriptionRestriction	mSISDNAlertIndicator	+	0	М	
ISSATISITES	subscriptionRestriction	+			М
ISAPTiority	rSZIlists				М
ISAPT ISAP	lSAIdentity	+			М
ISAActiveModeSupportIndicator	lsAPriority	+	0	М	М
ISAActiveModeIndicator	lSAPreferentialAccessIndicator	+	0	М	М
SAACTIVEMOdeIndicator	lSAActiveModeSupportIndicator	+	0	М	М
ISAActiveModeIndicator		+		М	М
VPLINIdentifier	lSAActiveModeIndicator	+		М	М
accessRestrictionData	vPLMNIdentifier	+	0		
PrivacyExceptionList	accessRestrictionData			M	
MOLRList	privacyExceptionList				
MOLRList			_		
serviceTypes	mOLRList				
mobileStationCategory	serviceTypes				
MUIdentifier	mobileStationCategory				
subscriberStatus + M					
gsmSCFaddresslistForODB + M M provisionOfBearerService + M M M provisionOfTeleservice + M M M bcAllocation + O M M barringOfOutgoingCalls + O M M barringOfRoaming + O M M barringOfSupplementaryServiceManagement + O M M barringOfRegistrationOfCallForwarding + O M M barringOfInvocationOfCallTransfer + O M M barringOfInvocationOfCallTransfer + O M M barringOfInvocationOfCallTransfer + O M M vecScGroupMembershipList + O M	subscriberStatus				
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ProvisionOfTeleservice	provisionOfBearerService				
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shortMessageServiceCAMELSubscriptionInformationMTSMSCSI + O M M mTSMSCSIVLRNegotiatedCAMELCapabilityHandling + O M M gsmSCFaddressforCSI + O M M iSTAlertTimer + O M M					
mTSMSCSIVLRNegotiatedCAMELCapabilityHandling + O M M gsmSCFaddressforCSI + O M M iSTAlertTimer + O M M					
gsmSCFaddressforCSI + O M M iSTAlertTimer + O M M					
iSTAlertTimer + O M M					
	cSAllocationRetentionpriority	+	Ö	M	M

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	M
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
becomany charging corrections and crommanie	+	U	IVI	IVI

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	M	- Qualifier
barringIndication	+	M	M	М
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	М	М
serviceIndication	+	M	М	М
primaryEventChargingFunctionName	+	0	М	М
secondaryEventChargingFunctionName	+	0	М	М
primaryChargingCollectionFunctionName	+	M	М	М
secondaryChargingCollectionFunctionName	+	0	М	М
gsmSCFaddressforIMCSI	+	0	М	M
oIMCSI	+	0	М	M
VTIMCSI	+	0	М	M
dIMCS	+	0	М	М
gAAServiceType	+	0	М	M
gAAServiceIdentifier	+	0	М	М
gBAUserSecuritySettings	+	0	М	M
userSecuritySetting	+	0	М	M
userPublicIdentity	+	0	М	М
gAAAuthorizationflag	+	0	М	М
keyLifetime	+	0	М	М
uICCSecuritySetting	+	0	М	М
nAFGroupIdentity	+	0	М	М

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	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	М
barringofPacketOrientedServices	+	0	М	М
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	М	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
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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	М
initialFilterCriteria	+	0	M	М
applicationServerInformation	+	0	M	М
serviceIndication	+	M	M	M
primaryEventChargingFunctionName	+	0	M	М
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	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	+	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

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
cSServiceProfileId	+	М	М	0
networkAccessMode	+	М	М	М
basicMSISDNIndicator	+	0	М	М
mSISDNAlertIndicator	+	0	М	М
vLRNumber	+	М	М	-
mSCNumber	+	М	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
messagesWaitingData	+	М	М	-
mobileStationNotReachableFlag	+	М	М	-
memoryCapacityExceededFlag	+	М	М	-
traceReference	+	0	M	-
traceType	+	0	М	-
operationsSystemsIdentity	+	Ö	M	-
hLRTraceType	+	0	M	-
mAPErrorOnTrace	+	Ö	M	-

traceActivatedInVLR	+	0	M	-
provisionOfBearerService	+	M	M	М
provisionOfTeleservice	+	M	M	M
bCAllocation	+	0	M	M
checkSSIndicator	+	M	M	-
mSPurgedForNonGPRSFlag	+	M	M	_
barringOfOutgoingCalls	+	0	М	М
barringOfIncomingCalls	+	0	М	М
barringOfRoaming	+	0	М	М
barringOfPremiumRateCalls	+	0	М	М
barringOfSupplementaryServiceManagement	+	0	М	М
barringOfRegistrationOfCallForwarding	+	0	М	М
barringOfInvocationOfCallTransfer	+	0	M	M
operatorDeterminedBarringPLMNspecificData	+	Ö	M	M
vGCSGroupMembershipList	+	0	M	M
vBSGroupMembershipList	+	0	M	M
broadcastCallInitiationAllowedList	+	Ö	M	M
originatingCAMELSubscriptionInformationOCSI	+	Ö	M	M
terminatingCAMELSubscriptionInformationTCSI	+	Ö	M	M
vMSCTerminatingCAMELSubscriptionInformationVTCSI	+	Ö	M	M
locationInformationSubscriberStateInformation	+	0	М	М
uSSDCAMELSubscriptionInformationUCSI	+	0	М	М
sSInvocationNotificationSSCSI	+	0	М	M
translationInformationFlagTIFCSI	+	0	М	М
dialledServiceCAMELSubscriptionInformationDCSI	+	0	М	М
uSSDGeneralCAMELServiceInformationUGCSI	+	0	М	М
oCSINegotiatedCAMELCapabilityHandling	+	0	М	-
sSCSINegotiatedCAMELCapabilityHandling	+	0	М	-
vTCSINegotiatedCAMELCapabilityHandling	+	0	М	-
shortMessageServiceCAMELSubscriptionInformationMOSMSCSI	+	0	М	М
shortMessageServiceCAMELSubscriptionInformationMTSMSCSI	+	0	М	М
mOSMSCSIVLRNegotiatedCAMELCapabilityHandling	+	0	M	-
mTSMSCSIVLRNegotiatedCAMELCapabilityHandling	+	0	M	М
mCSINegotiatedCAMELCapabilityHandling	+	0	M	-
vLRSupportedCAMELPhases	+	0	M	-
gsmSCFaddressforCSI	+	0	M	M
vLROfferedCAMEL4CSIs	+	0	M	-
iSTAlertTimer	+	0	M	М
cSAllocationRetentionpriority	+	0	M	М
TraceReference2	+	0	M	-
TraceDepth	+	0	M	-
ListofNeTypestoTrace	+	0	M	-
TriggeringEvents	+	0	M	-
ListofInterfacestoTrace	+	0	M	-

6.3.12.3 Attribute constraints

The optional attributes:

accessRestrictionData
ageIndicator
barringOfIncomingCalls
barringOfInvocationOfCallTransfer
barringOfOutgoingCalls
barringOfPremiumRateCalls
barringOfRegistrationOfCallForwarding
barringOfRoaming
barringOfSupplementaryServiceManagement
basicMSISDNIndicator
bCAllocation
bCAllocation
broadcastCallInitiationAllowedList
cSAllocationRetentionpriority

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dialledServiceCAMELSubscriptionInformationDCSI
qMLCNumbers
gsmSCFaddressforCSI
iSTAlertTimer
locationInformationSubscriberStateInformation
lSAActiveModeIndicator
lSAActiveModeSupportIndicator
1SAIdentity
lSAOnlyAccessIndicator
lSAPreferentialAccess Indicator
ISAPriority
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	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	M	-
sGSNSupportedCAMELPhases	+	0	М	-
sGSNOfferedCAMEL4CSIs	+	0	M	-
gsmSCFaddressforCSI	+	0	M	М
subscribedChargingCharacteristics	+	0	M	М
w-APN	+	0	М	М
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	М	М
w-APNBarringType	+	0	M	М
w-APNChargingData	+	0	M	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	-

26

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
mOLRList
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	М
listofauthorizedvisitednetworkidentifiers	+	М	М	М
registrationStatus	+	М	М	М
sCSCFName	+	М	М	М
diameterClientAddressofSCSCF	+	М	М	-
serverCapabilities	+	0	M	M
subscribedMediaProfileIdentifier	+	0	M	M
initialFilterCriteria	+	0	M	M
applicationServerInformation	+	0	М	М
serviceIndication	+	М	М	М
primaryEventChargingFunctionName	+	0	М	М
secondaryEventChargingFunctionName	+	0	М	М
primaryChargingCollectionFunctionName	+	М	М	М
secondaryChargingCollectionFunctionName	+	0	М	М
gsmSCFaddressforIMCSI	+	0	М	М
iMSSFaddressforIMCSI	+	0	М	-
oIMCSI	+	0	М	М
vTIMCSI	+	0	M	M
dIMCS	+	0	М	М
gAAServiceType	+	0	М	М
gAAServiceIdentifier	+	0	М	М
gBAUserSecuritySettings	+	0	М	М
userSecuritySetting	+	0	M	M
userPublicIdentity	+	0	М	М
gAAAuthorizationflag	+	0	M	M
keyLifetime	+	0	M	M
uICCSecuritySetting	+	0	M	M
nAFGroupIdentity	+	0	M	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	M	M

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	М
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 SuMSubscriptionProfile and 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

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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.	
suMSubscriptionProfileId	An attribute whose 'name+value' 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) 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 SuMSubscribedService object class.	

32

Attribute Name	Definition	Legal Values
iMSI	23.008 clause 2.1.1.1	
networkAccessMode	23.008 clause 2.1.1.2	
mSISDN	23.008 clause 2.1.2	
multinumberingMSISDNs	23.008 clause 2.1.3	
basicMSISDNIndicator	23.008 clause 2.1.3.1	
mSISDNAlertIndicator	23.008 clause 2.1.3.2	
lmsi	23.008 clause 2.1.8	
mobileStationCategory	23.008 clause 2.2.1	
lMUIdentifier	23.008 clause 2.2.2	
iMEISV	23.008 clause 2.2.3	
subscriptionRestriction	23.008 clause 2.4.10	
rSZIlists	23.008 clause 2.4.11.1	
mSCAreaRestrictedFlag	23.008 clause 2.4.12	
sGSNarearestrictedflag	23.008 clause 2.4.14	
oDBinducedBarringData	23.008 clause 2.4.15.1	
roamingRestrictionDueToUnsupportedFeature	23.008 clause 2.4.15.2	
roamingRestrictedintheSGSNduetounsupportedfeature	23.008 clause 2.4.15.3	
lSAIdentity	23.008 clause 2.4.17.1	
lsaPriority	23.008 clause 2.4.17.1	
ISAPreferentialAccessIndicator	23.008 clause 2.4.17.2A	
1SAActiveModeSupportIndicator	23.008 clause 2.4.17.2B	
1SAOnlyAccessIndicator	23.008 clause 2.4.17.2B	
1SAActiveModeIndicator	23.008 clause 2.4.17.3	
vPLMNIdentifier	23.008 clause 2.4.17.5	
accessRestrictionData	23.008 clause 2.4.17.5	
vLRNumber	23.008 clause 2.4.16	
mSCNumber	23.008 clause 2.4.6	
sGSNNumber	23.008 clause 2.4.8.1	
gGSNNumber	23.008 clause 2.4.8.2	
provisionOfBearerService	23.008 clause 2.5.1	
provisionOfTeleservice	23.008 clause 2.5.1	
bCAllocation	23.008 clause 2.5.2	
transferofSMoption	23.008 clause 2.5.4	
mNRG	23.008 clause 2.7.2	
checkSSIndicator	23.008 clause 2.7.4.4	
mSPurgedForNonGPRSFlag		
mSpurgedforGPRSflag	23.008 clause 2.7.5	
subscriberStatus	23.008 clause 2.7.6	
	23.008 clause 2.8.1	
barringOfOutgoingCalls barringOfIncomingCalls	23.008 clause 2.8.2.1	
	23.008 clause 2.8.2.2	
barringOfRoaming	23.008 clause 2.8.2.3	
barringOfPremiumRateCalls barringOfSupplementaryServiceManagement	23.008 clause 2.8.2.4	
	23.008 clause 2.8.2.5	
barringOfRegistrationOfCallForwarding	23.008 clause 2.8.2.6	
barringOfInvocationOfCallTransfer	23.008 clause 2.8.2.7	
barringofPacketOrientedServices	23.008 clause 2.8.2.8	
operatorDeterminedBarringPLMNspecificData	23.008 clause 2.8.3	
notificationToCSEFlagForODB	23.008 clause 2.8.4	
gsmSCFaddresslistForODB	23.008 clause 2.8.5	

	,
messagesWaitingData	23.008 clause 2.10.1
mobileStationNotReachableFlag	23.008 clause 2.10.2
memoryCapacityExceededFlag	23.008 clause 2.10.3
traceReference	23.008 clause 2.11.1
traceType	23.008 clause 2.11.2
operationsSystemsIdentity	23.008 clause 2.11.3
hLRTraceType	23.008 clause 2.11.4
mAPErrorOnTrace	23.008 clause 2.11.5
traceActivatedInVLR	23.008 clause 2.11.6
traceActivatedinSGSN	23.008 clause 2.11.7
vGCSGroupMembershipList	23.008 clause 2.11.7
vBSGroupMembershipList	<u> </u>
broadcastCallInitiationAllowedList	23.008 clause 2.12.2
	23.008 clause 2.12.2.1
pDPType	23.008 clause 2.13.1
gGSNlist	23.008 clause 2.13.11
qualityofServiceSubscribed	23.008 clause 2.13.12
pDPAddress	23.008 clause 2.13.2
pDPContextIdentifier	23.008 clause 2.13.24
pDPContextChargingCharacteristics	23.008 clause 2.13.25
accessPointName	23.008 clause 2.13.6
vPLMNAddressAllowed	23.008 clause 2.13.8
originatingCAMELSubscriptionInformationOCSI	23.008 clause 2.14.1.1/3.1
qPRSCAMELSubscriptionInformationGPRSCSI	23.008 clause
	2.14.1.10/2.14.4.4
dialledServiceCAMELSubscriptionInformationDCSI	23.008 clause 2.14.1.11/3.7
mobilityManagementforGPRSeventnotificationMGCSI	23.008 clause 2.14.1.11/3.7
International agents of the service of the servic	
terminatingCAMELSubscriptionInformationTCSI	2.14.1.12/2.14.4.4
vMSCTerminatingCAMELSubscriptionInformationVTCSI	23.008 clause 2.14.1.2
	23.008 clause 2.14.1.2/3.2
locationInformationSubscriberStateInformation	23.008 clause 2.14.1.3
uSSDCAMELSubscriptionInformationUCSI	23.008 clause 2.14.1.4
sSInvocationNotificationSSCSI	23.008 clause 2.14.1.5/3.2
translationInformationFlagTIFCSI	23.008 clause 2.14.1.6/3.6
shortMessageServiceCAMELSubscriptionInformationMOSMSCSI	23.008 clause
	2.14.1.8/2.14.3.5
shortMessageServiceCAMELSubscriptionInformationMOSMSCSI mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI	2.14.1.8/2.14.3.5
	2.14.1.8/2.14.3.5
	2.14.1.8/2.14.3.5 23.008 clause
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2.
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1 23.008 clause 2.14.2.1
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1 23.008 clause 2.14.2.1 23.008 clause 2.14.2.1
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1 23.008 clause 2.14.2.1 23.008 clause 2.14.2.1 23.008 clause 2.14.2.1
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling mOSMSCSIVLRNegotiatedCAMELCapabilityHandling	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling mOSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling mOSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling mOSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling oCSINegotiatedCAMELCapabilityHandling	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling mOSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling oCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling mOSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling sCSINegotiatedCAMELCapabilityHandling sCSINegotiatedCAMELCapabilityHandling vTCSINegotiatedCAMELCapabilityHandling vTCSINegotiatedCAMELCapabilityHandling	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling mOSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling oCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling vTCSINegotiatedCAMELCapabilityHandling SGSNOfferedCAMELCSIS	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling mOSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling sCSINegotiatedCAMELCapabilityHandling sCSINegotiatedCAMELCapabilityHandling vTCSINegotiatedCAMELCapabilityHandling vTCSINegotiatedCAMELCapabilityHandling	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling mOSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling oCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling vTCSINegotiatedCAMELCapabilityHandling SGSNOfferedCAMELCSIS	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling mOSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling sCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling vTCSINegotiatedCAMELCapabilityHandling SGSNOfferedCAMEL4CSIS vLROfferedCAMEL4CSIS	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1
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mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling mOSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling oCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling vTCSINegotiatedCAMELCapabilityHandling SGSNOfferedCAMELASIS vLROfferedCAMELACSIS sGSNSupportedCAMELPhases vLRSupportedCAMELPhases	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1 23.008 clause 2.14.2.2A 23.008 clause 2.14.2.2A 23.008 clause 2.14.2.3 23.008 clause 2.14.2.3 23.008 clause 2.14.2.3
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling mOSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling vTCSINegotiatedCAMELCapabilityHandling SGSNOfferedCAMELACSIS vLROfferedCAMELACSIS sGSNSupportedCAMELPhases yLRSupportedCAMELPhases gsmSCFaddressforCSI	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1 23.008 clause 2.14.2.2A 23.008 clause 2.14.2.2A 23.008 clause 2.14.2.3 23.008 clause 2.14.2.3 23.008 clause 2.14.2.4 23.008 clause 2.14.2.4
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling sCSINegotiatedCAMELCapabilityHandling sCSINegotiatedCAMELCapabilityHandling vTCSINegotiatedCAMELCapabilityHandling SGSNOfferedCAMEL4CSIs vLROfferedCAMEL4CSIs sGSNSupportedCAMEL4CSIs sGSNSupportedCAMELPhases vLRSupportedCAMELPhases gsmSCFaddressforCSI uSSDGeneralCAMELServiceInformationUGCSI iSTAlertTimer	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1 23.008 clause 2.14.2.2A 23.008 clause 2.14.2.2A 23.008 clause 2.14.2.3 23.008 clause 2.14.2.3 23.008 clause 2.14.2.4 23.008 clause 2.14.2.4 23.008 clause 2.14.2.4 23.008 clause 2.14.2.4
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling mOSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSISGSNNegotiatedCAMELCapabilityHandling sSCSIVLRNegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling vTCSINegotiatedCAMELCapabilityHandling SGSNOfferedCAMEL4CSIs vLROfferedCAMEL4CSIs vLROfferedCAMEL4CSIs sGSNSupportedCAMELPhases vLRSupportedCAMELPhases gsmSCFaddressforCSI uSSDGeneralCAMELServiceInformationUGCSI iSTAlertTimer privacyExceptionList	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1 23.008 clause 2.14.2.2A 23.008 clause 2.14.2.2A 23.008 clause 2.14.2.3 23.008 clause 2.14.2.3 23.008 clause 2.14.2.4
moShortMessageServiceCAMELSubscriptionInformationMoSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling mOSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling vTCSINegotiatedCAMELCapabilityHandling sGSNOfferedCAMELCapabilityHandling SGSNOfferedCAMELACSIs vLROfferedCAMELACSIs sGSNSupportedCAMELACSIs sGSNSupportedCAMELPhases yLRSupportedCAMELPhases gsmSCFaddressforCSI uSSDGeneralCAMELServiceInformationUGCSI iSTAlertTimer privacyExceptionList gMLCNumbers	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1 23.008 clause 2.14.2.2A 23.008 clause 2.14.2.2A 23.008 clause 2.14.2.3 23.008 clause 2.14.2.4 23.008 clause 2.14.2.4 23.008 clause 2.14.2.4 23.008 clause 2.15.1 23.008 clause 2.16.1.1 23.008 clause 2.16.1.2
moShortMessageServiceCAMELSubscriptionInformationMoSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling mOSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling oCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling vTCSINegotiatedCAMELCapabilityHandling sGSNOfferedCAMELCASIS vLROfferedCAMEL4CSIS sGSNSupportedCAMELPhases vLRSupportedCAMELPhases gsmSCFaddressforCSI uSSDGeneralCAMELServiceInformationUGCSI iSTAlertTimer privacyExceptionList gMLCNumbers moLRList	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1 23.008 clause 2.14.2.2A 23.008 clause 2.14.2.2A 23.008 clause 2.14.2.3 23.008 clause 2.14.2.4 23.008 clause 2.14.2.4 23.008 clause 2.14.2.4 23.008 clause 2.16.1.1 23.008 clause 2.16.1.2 23.008 clause 2.16.1.2
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling yTCSINegotiatedCAMELCapabilityHandling SGSNOfferedCAMEL4CSIs vLROfferedCAMEL4CSIs vLROfferedCAMEL4CSIs sGSNSupportedCAMELPhases vLRSupportedCAMELPhases yLRSupportedCAMELPhases gsmSCFaddressforCSI uSSDGeneralCAMELServiceInformationUGCSI iSTAlertTimer privacyExceptionList gMLCNumbers mOLRList serviceTypes	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1 23.008 clause 2.14.2.3 23.008 clause 2.14.2.2A 23.008 clause 2.14.2.3 23.008 clause 2.14.2.4 23.008 clause 2.14.2.4 23.008 clause 2.14.2.4 23.008 clause 2.16.1.1 23.008 clause 2.16.1.2 23.008 clause 2.16.1.3 23.008 clause 2.16.1.3
moShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling mOSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling oCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling vTCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling SGSNOfferedCAMEL4CSIs vLROfferedCAMEL4CSIs sSSNSupportedCAMEL4CSIs sGSNSupportedCAMELPhases gsmSCFaddressforCSI uSSDGeneralCAMELServiceInformationUGCSI iSTAlertTimer privacyExceptionList gMLCNumbers mOLRList serviceTypes ageIndicator	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1 23.008 clause 2.14.2.2A 23.008 clause 2.14.2.2A 23.008 clause 2.14.2.3 23.008 clause 2.14.2.4 23.008 clause 2.14.2.4 23.008 clause 2.14.2.4 23.008 clause 2.14.2.4 23.008 clause 2.16.1.1 23.008 clause 2.16.1.3 23.008 clause 2.16.1.4 23.008 clause 2.16.1.4 23.008 clause 2.16.1.4
moShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mOSMSCSINegotiatedCAMELCapabilityHandling mOSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling oCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling vTCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling SGSNOfferedCAMEL4CSIs vLROfferedCAMEL4CSIs vLROfferedCAMEL4CSIs sGSNSupportedCAMELPhases vLRSupportedCAMELPhases gsmSCFaddressforCSI uSSDGeneralCAMELServiceInformationUGCSI iSTAlertTimer privacyExceptionList gMLCNumbers mOLRList serviceTypes ageIndicator cSAllocationRetentionpriority	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1 23.008 clause 2.14.2.2A 23.008 clause 2.14.2.2A 23.008 clause 2.14.2.3 23.008 clause 2.14.2.4 23.008 clause 2.14.2.4 23.008 clause 2.14.2.4 23.008 clause 2.16.1.1 23.008 clause 2.16.1.2 23.008 clause 2.16.1.3 23.008 clause 2.16.1.4 23.008 clause 2.16.1.4 23.008 clause 2.16.1.4 23.008 clause 2.16.1.4 23.008 clause 2.17.1 23.008 clause 2.17.1
moShortMessageServiceCAMELSubscriptionInformationMOSMSCSI shortMessageServiceCAMELSubscriptionInformationMTSMSCSI mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI gPRSCSINegotiatedCAMELCapabilityHandling mCSINegotiatedCAMELCapabilityHandling mGCSINegotiatedCAMELCapabilityHandling mOSMSCSISGSNNegotiatedCAMELCapabilityHandling mOSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling mTSMSCSIVLRNegotiatedCAMELCapabilityHandling oCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling vTCSINegotiatedCAMELCapabilityHandling sSCSINegotiatedCAMELCapabilityHandling SGSNOfferedCAMEL4CSIs vLROfferedCAMEL4CSIs sSSNSupportedCAMEL4CSIs sGSNSupportedCAMELPhases gsmSCFaddressforCSI uSSDGeneralCAMELServiceInformationUGCSI iSTAlertTimer privacyExceptionList gMLCNumbers mOLRList serviceTypes ageIndicator	2.14.1.8/2.14.3.5 23.008 clause 2.14.1.8/2.14.4.1 23.008 clause 2.14.1.9/2.14.3.6 23.008 clause 2.14.1.9/2.14.4.2. 23.008 clause 2.14.2.1 23.008 clause 2.14.2.2A 23.008 clause 2.14.2.2A 23.008 clause 2.14.2.3 23.008 clause 2.14.2.4 23.008 clause 2.14.2.4 23.008 clause 2.14.2.4 23.008 clause 2.14.2.4 23.008 clause 2.16.1.1 23.008 clause 2.16.1.3 23.008 clause 2.16.1.4 23.008 clause 2.16.1.4 23.008 clause 2.16.1.4

publicIdentity	23.008 clause 3.1.2
barringIndication	23.008 clause 3.1.3
listofauthorizedvisitednetworkidentifiers	23.008 clause 3.1.4
registrationStatus	23.008 clause 3.2.1
sCSCFName	23.008 clause 3.2.2
diameterClientAddressofSCSCF	23.008 clause 3.2.3
serverCapabilities	23.008 clause 3.4.1
subscribedMediaProfileIdentifier	23.008 clause 3.5.1
initialFilterCriteria	23.008 clause 3.5.1
applicationServerInformation	23.008 clause 3.5.2
serviceIndication	
	23.008 clause 3.5.4
primaryEventChargingFunctionName	23.008 clause 3.7.1
secondaryEventChargingFunctionName	23.008 clause 3.7.2
primaryChargingCollectionFunctionName	23.008 clause 3.7.3
secondaryChargingCollectionFunctionName	23.008 clause 3.7.4
gsmSCFaddressforIMCSI	23.008 clause 3.8.4
iMSSFaddressforIMCSI	23.008 clause 3.8.5
oIMCSI	23.008 clause 3.8.1
vTIMCSI	23.008 clause 3.8.2
dIMCS	23.008 clause 3.8.3
gAAServiceType	23.008 clause 3A.1
gAAServiceIdentifier	23.008 clause 3A.1
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
wLANUERemoteIPaddress	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
w-APNBarringType	23.008 clause 3B.5.4.2
w-APNChargingData	23.008 clause 3B.5.4.3
wLANUERemoteIPAddress	23.008 clause 3B.5.4.4
accessIndependenceFlag	23.008 clause 3B.5.5
i-WLANAccessType	23.008 clause 3B.5.6
chargingData	23.008 clause 3B.7.1
chargingCharacteristics	23.008 clause 3B.7.1.1
primaryOCSChargingFunctionName	23.008 clause 3B.7.2
secondaryOCSChargingFunctionName	23.008 clause 3B.7.2
primaryChargingCollectionFunctionName	
secondaryChargingCollectionFunctionName	23.008 clause 3B.7.4
	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
TOT WAT GEG - COLVAIIDET	
Face and all to Out address of	29.002 clause 7.6.4.6
forwarded-toSubaddress	23.008 clause 2.6
	29.002 clause 7.6.4.6
Inches InConditionTimes	
noReplyConditionTimer	23.008 clause 2.6 29.002 clause 7.6.4.7

maximumEntitledPriority	23.008 clause 2.6
	29.002 clause 7.6.4.41
defaultPriority	23.008 clause 2.6
	29.002 clause 7.6.4.41
nbrUser	23.008 clause 2.6
	29.002 clause 7.6.4.47
nbrSB	23.008 clause 2.6
	29.002 clause 7.6.4.47
TraceReference2	23.008 Clause 2.11.9
TraceDepth	23.008 Clause 2.11.10
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	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

History

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