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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)
(3GPP TS 32.172 version 6.1.0 Release 6)



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Contents

Intelle	ectual Property Rights	2
Forew	/ord	2
Forew	/ord	5
Introd	luction	5
1	Scope	6
2	References	6
3	Definitions and abbreviations.	£
3.1	Definitions	
3.2	Abbreviations	
4	Compliance rules	
5	Modelling approach.	
	•	
6	Information Object Classes	
6.1	Imported information entities and local labels	
6.2	Class diagram	
6.2.1	Attributes and relationships	
6.2.2	Inheritance	
6.3	Information Object Class definitions	
6.3.1	SuMService	
6.3.1.1		
6.3.1.2		
6.3.2	CSService	
6.3.2.1		
6.3.2.2		
6.3.2.3 6.3.3	Attribute constraints PSService	
6.3.3.1		
6.3.3.2		
6.3.3.3		
6.3.4	IMSService	
6.3.4.1		
6.3.4.2		
6.3.4.3		
6.3.5		
6.3.5.1	SuMSubscribedService	
6.3.5.2		
6.3.5.2 6.3.6	CSSubscribedService	
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		
0.5.10	Suitisuosenpuom tome	4 1

History.		39
Annex A	A (informative): Change h	story38
6.5.1	Definitions and legal values	33
6.5		33
6.4.2.3		32
6.4.2.2		31
6.4.2.1		31
6.4.2	•	31
6.4.1.3		31
6.4.1.2		31
6.4.1.1		31
6.4.1	_	31
6.4		s31
6.3.18.3		31
6.3.18.2		31
6.3.18.1		31
6.3.18		31
6.3.17.3		30
6.3.17.2		30
6.3.17.1		30
6.3.17		30
6.3.16.2		30
6.3.16.1		30
6.3.16		30
6.3.15.2		29
6.3.15.1		29
6.3.15		29
6.3.14.3		29
6.3.14.2		29
6.3.14.1		
6.3.14		28
6.3.13.3		27
6.3.13.2		
6.3.13.1		25
6.3.13		25
6.3.12.3		24
6.3.12.2		23
6.3.12.1		22
6.3.12		22
6.3.11.2		21
6.3.11.1		21
6.3.11		21
6.3.10.3		21
6.3.10.2		21
6.3.10.1	Definition	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

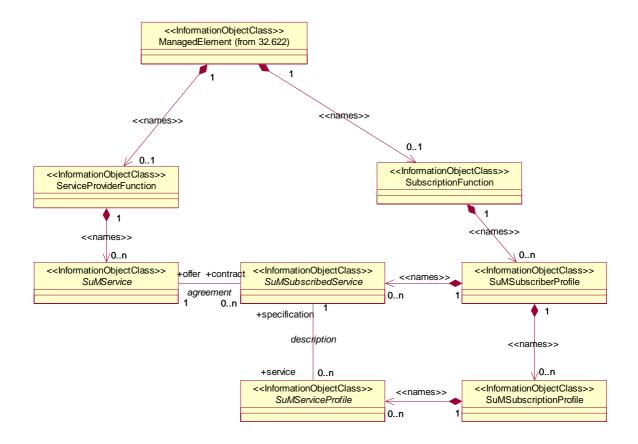
6.1 Imported information entities and local labels

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

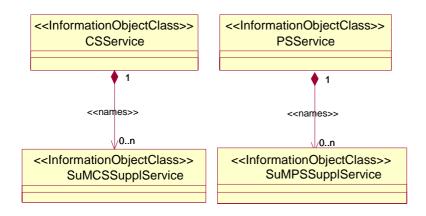


Figure 1.b: SuM Supplementary Service NRM Containment/Naming and Association diagram 1

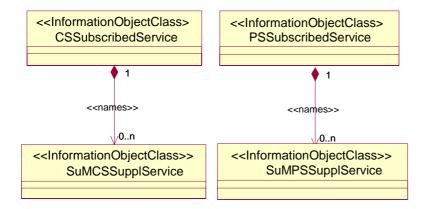


Figure 1.c: SuM Supplementary Service NRM Containment/Naming and Association diagram 2

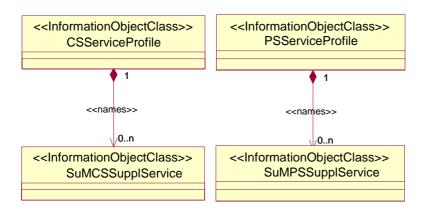


Figure 1.d: SuM Supplementary Service NRM Containment/Naming and Association diagram 3

6.2.2 Inheritance

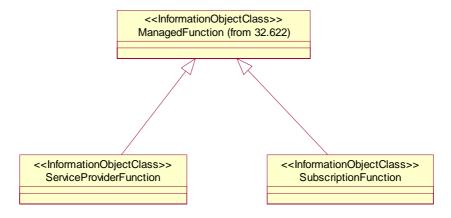


Figure 2a: SuM NRM Inheritance Hierarchy 1

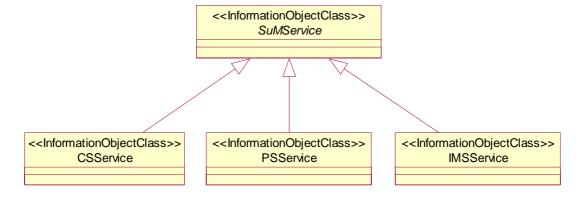


Figure 2b: SuM NRM Inheritance Hierarchy 2

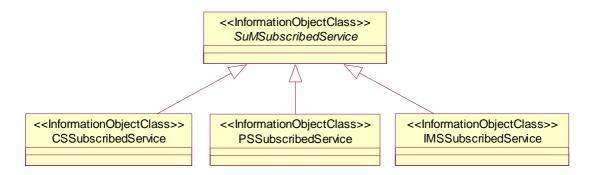


Figure 2c: SuM NRM Inheritance Hierarchy 3

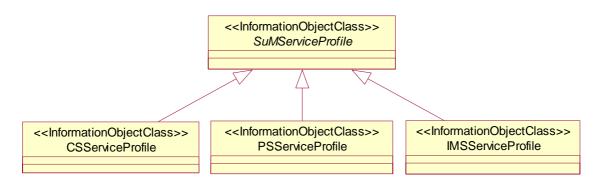


Figure 2d: SuM NRM Inheritance Hierarchy 4

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

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
cSServiceId	+	М	М	-
networkAccessMode	+	М	М	М
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	+	0	М	М
accessRestrictionData	+	0	М	М
privacyExceptionList	+	0	М	М
gMLCNumbers	+	0	М	М
mOLRList	+	0	М	М
serviceTypes	+	0	М	М
mobileStationCategory	+	М	М	М
lMUIdentifier	+	М	М	М
subscriptionRestriction	+	М	М	М
subscriberStatus	+	М	М	М
gsmSCFaddresslistForODB	+	М	М	М
provisionOfBearerService	+	М	М	М
provisionOfTeleservice	+	М	М	М
bCAllocation	+	0	М	М
barringOfOutgoingCalls	+	0	М	М
barringOfIncomingCalls	+	0	М	М
barringOfRoaming	+	0	М	М
barringOfPremiumRateCalls	+	0	М	М
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	М
terminatingCAMELSubscriptionInformationTCSI	+	0	M	M
vMSCTerminatingCAMELSubscriptionInformationVTCSI	+	0	M	M
locationInformationSubscriberStateInformation	+	0	M	M
uSSDCAMELSubscriptionInformationUCSI	+	0	M	M
sSInvocationNotificationSSCSI	+	0	M	M
translationInformationFlagTIFCSI	+	0	M	М
dialledServiceCAMELSubscriptionInformationDCSI	+	0	M	М
uSSDGeneralCAMELServiceInformationUGCSI	+	0	М	M
shortMessageServiceCAMELSubscriptionInformationMOSMSCSI	+	0	M	М
shortMessageServiceCAMELSubscriptionInformationMTSMSCSI	+	0	M	М
mTSMSCSIVLRNegotiatedCAMELCapabilityHandling	+	0	M	М
gsmSCFaddressforCSI	+	0	М	M
iSTAlertTimer	+	0	М	M
cSAllocationRetentionpriority	+	0	M	М

6.3.2.3 Attribute constraints

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

6.3.3 PSService

6.3.3.1 Definition

In this management context:

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

6.3.3.2 Attributes

Attributes of PSService

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
pSServiceId		M	M	Qualifiei
networkAccessMode	+	M	M	M
basicMSISDNIndicator		0	M	M
mSISDNAlertIndicator	+	0	M	M
subscriptionRestriction	+			
rSZIlists	+	0	M	M
1SAIdentity	+	0	M	M
	+	0	M	M
ISAPriority ISAPreferentialAccessIndicator	+	0	M	M
	+	0	M	M
1SAActiveModeSupportIndicator	+	0	M	M
lSAOnlyAccessIndicator	+	0	M	M
1SAActiveModeIndicator	+	0	M	M
vPLMNIdentifier	+	0	M	M
accessRestrictionData	+	0	M	M
privacyExceptionList	+	0	M	M
gMLCNumbers	+	0	M	M
mOLRList	+	0	M	M
serviceTypes	+	0	M	M
gGSNNumber	+	0	М	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	М	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	M	-
barringIndication	+	М	М	M
listofauthorizedvisitednetworkidentifiers	+	М	М	M
registrationStatus	+	M	M	М
sCSCFName	+	М	М	M
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	+	М	М	M
secondaryChargingCollectionFunctionName	+	0	М	M
gsmSCFaddressforIMCSI	+	0	М	M
oIMCSI	+	0	М	M
vTIMCSI	+	0	М	M
dIMCS	+	0	М	M
gAAServiceType	+	0	М	M
gAAServiceIdentifier	+	0	М	M
gBAUserSecuritySettings	+	0	М	M
userSecuritySetting	+	0	М	М
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	+	M	M	М
basicMSISDNIndicator	+	0	M	M
mSISDNAlertIndicator	+	0	M	M
subscriptionRestriction	+	0	M	M
rSZIlists	+	0	M	M
lsAldentity	+	0	M	M
lsAPriority	+	0	M	M
ISAPreferentialAccessIndicator	+	0	M	M
1SAActiveModeSupportIndicator	+	0	M	M
1SAOnlyAccessIndicator	+	0	M	M
1SAActiveModeIndicator	+	0	M	M
vPLMNIdentifier	+	0	M	M
accessRestrictionData	+	0	M	M
privacyExceptionList	+	0	M	M
gMLCNumbers	+	0	M	M
mOLRList.	+	0	M	M
serviceTypes	+	0	M	M
mobileStationCategory		M	M	M
1MUIdentifier	+	M	M	M
subscriptionRestriction	+	M	M	M
subscriberStatus	+	M	M	M
gsmSCFaddresslistForODB	+			
provisionOfBearerService	+	M	M	M M
provisionOfTeleservice	+	M	M	
bCAllocation	+	M	M	M
barringOfOutgoingCalls	+	0	M	M
barringOfOutgOffigCalls barringOfIncomingCalls	+		M	M
barringOffRoaming	+	0	M	M
barringOfPremiumRateCalls	+	0	M	M
_	+	0	M	M
barringOfSupplementaryServiceManagement barringOfRegistrationOfCallForwarding	+	0	M	M
barringOfInvocationOfCallTransfer	+	0	M	M
_	+	0	M	M
operatorDeterminedBarringPLMNspecificData	+	0	M	M
vGCSGroupMembershipList	+	0	M	M
vBSGroupMembershipList	+	0	M	M
broadcastCallInitiationAllowedList originatingCAMELSubscriptionInformationOCSI	+	0	M	M
terminatingCAMELSubscriptionInformationTCSI	+	0	M	M
	+	0	M	M
vMSCTerminatingCAMELSubscriptionInformationVTCSI	+	0	M	M
locationInformation/SubscriberStateInformation	+	0	M	M
uSSDCAMELSubscriptionInformationUCSI	+	0	M	M
sSInvocationNotificationSSCSI	+	0	M	M
translationInformationFlagTIFCSI	+	0	M	M
dialledServiceCAMELSubscriptionInformationDCSI	+	0	M	M
uSSDGeneralCAMELServiceInformationUGCSI	+	0	M	M
shortMessageServiceCAMELSubscriptionInformationMOSMSCSI	+	0	M	M
shortMessageServiceCAMELSubscriptionInformationMTSMSCSI	+	0	M	M
mTSMSCSIVLRNegotiatedCAMELCapabilityHandling	+	0	M	M
gsmSCFaddressforCSI	+	0	M	М
iSTAlertTimer	+	0	M	M
cSAllocationRetentionpriority	+	0	M	М

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

Associate warms	Vielbility	Support	Read	Write
Attribute name	Visibility	Qualifier	Qualifier	Qualifier
pSSubscribedServiceId	+	M	M	-
networkAccessMode	+	M	M	М
basicMSISDNIndicator	+	0	M	M
mSISDNAlertIndicator	+	0	М	M
subscriptionRestriction	+	0	M	M
rSZIlists	+	0	M	M
lsAIdentity	+	0	M	M
lsAPriority	+	0	M	M
lSAPreferentialAccessIndicator	+	0	M	M
lSAActiveModeSupportIndicator	+	0	М	М
lSAOnlyAccessIndicator	+	0	М	М
lSAActiveModeIndicator	+	0	М	М
vPLMNIdentifier	+	0	М	М
accessRestrictionData	+	Ö	M	M
privacyExceptionList	+	0	M	M
gMLCNumbers	+	0	M	M
mOLRList	+	0	M	M
serviceTypes		0	M	M
gGSNNumber	+	0	M	M
provisionofTeleservice	+	_		
	+	0	M	M
transferofSMoption	+	M	M	M
barringofPacketOrientedServices	+	0	M	М
pDPType	+	0	M	M
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	М	М
mOSMSCSISGSNNegotiatedCAMELCapabilityHandling	+	0	М	М
mTSMSCSISGSNNegotiatedCAMELCapabilityHandling	+	0	М	М
mobilityManagementforGPRSeventnotificationMGCSI	+	0	М	М
mGCSINegotiatedCAMELCapabilityHandling	+	Ö	M	M
gsmSCFaddressforCSI	+	0	M	M
subscribedChargingCharacteristics	+	0	M	M
w-APN	+	0	M	M
listofauthorizedvisitednetworkidentifiers	+	0	M	M
wLANUERemoteIPaddress		_		
WLANAccess	+	0	M M	M M
wLANTunnelling	+			
wLANDirectIPAccess	+	0	M	M
	+	0	M	M
wAPNAuthorised	+	0	M	M
w-APNBarringType	+	0	M	M
w-APNChargingData	+	0	M	М
wLANUERemoteIPAddress	+	0	M	M
accessIndependenceFlag	+	0	M	М
i-WLANAccessType	+	0	M	М
chargingData	+	0	М	М
chargingCharacteristics	+	0	M	М
primaryOCSChargingFunctionName	+	0	М	М
secondaryOCSChargingFunctionName	+	Ö	M	М
primaryChargingCollectionFunctionName	+	0	M	M
secondaryChargingCollectionFunctionName	+	0	M	M
	т		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	М	M
nAFGroupIdentity	+	0	M	M

6.3.8.3 Attribute constraints

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

6.3.9 SuMSubscriberProfile

6.3.9.1 Definition

In this management context:

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

6.3.9.2 Attributes

Attributes of SuMSubscriberProfile

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

6.3.10 SuMSubscriptionProfile

6.3.10.1 Definition

In this management context:

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

6.3.10.2 Attributes

Attributes of SuMSubscriptionProfile

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

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

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

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

6.3.12.3 Attribute constraints

The optional attributes:

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

```
originatingCAMELSubscriptionInformationOCSI
privacyExceptionList
rSZIlists
serviceTypes
\verb|shortMessageServiceCAMELS| ubscriptionInformationMOSMSCSI|
\verb|shortMessageServiceCAMELS| ubscriptionInformation \verb|MTSMSCSI||
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

Attributes of PSServiceProfile

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
pSServiceProfileId	+	М	М	0
networkAccessMode	+	M	M	M
basicMSISDNIndicator	+	0	M	M
mSISDNAlertIndicator	+	0	M	M
vLRNumber	+	M	M	-
mSCNumber	+	M	M	_
subscriptionRestriction	+	0	M	М
rSZIlists	+	0	M	M
mSCAreaRestrictedFlag	+	M	M	-
oDBinducedBarringData	+	0	M	_
roamingRestrictionDueToUnsupportedFeature	+	M	M	_
lsAldentity	+	0	M	M
lsAPriority	+	0	M	M
ISAPreferentialAccessIndicator		0	M	M
lSAActiveModeSupportIndicator	+	0	M	M
1SAOnlyAccessIndicator	+			
1SAActiveModeIndicator	+	0	M	M
vPLMNIdentifier	+	0	M	M
	+	0	M	M
accessRestrictionData	+	0	M	M
privacyExceptionList	+	0	M	М
gMLCNumbers	+	0	M	M
mOLRList	+	0	M	M
serviceTypes	+	0	M	M
ageIndicator	+	0	M	-
sGSNNumber	+	M	M	-
gGSNNumber	+	0	M	M
sGSNarearestrictedflag	+	М	M	-
roamingRestrictedintheSGSNduetounsupportedfeature	+	М	M	-
mNRG	+	М	M	-
traceActivatedinSGSN	+	0	M	-
provisionofTeleservice	+	0	M	M
transferofSMoption	+	М	М	M
mSpurgedforGPRSflag	+	М	М	-
barringofPacketOrientedServices	+	0	М	M
pDPType	+	0	М	M
pDPAddress	+	0	М	M
accessPointName	+	0	М	М
vPLMNAddressAllowed	+	0	М	М
gGSNlist	+	М	М	-
qualityofServiceSubscribed	+	0	М	М
pDPContextIdentifier	+	Ö	M	-
pDPContextChargingCharacteristics	+	0	М	М
gPRSCAMELSubscriptionInformationGPRSCSI	+	Ö	M	M
mOShortMessageServiceCAMELSubscriptionInformationMOSMSCSI	+	Ö	M	M
mTShortMessageServiceCAMELSubscriptionInformationMTSMSCSI	+	0	M	M
mOSMSCSISGSNNegotiatedCAMELCapabilityHandling	+	0	M	M
mTSMSCSISGSNNegotiatedCAMELCapabilityHandling	+	0	M	M
mobilityManagementforGPRSeventnotificationMGCSI		0	M	M
mGCSINegotiatedCAMELCapabilityHandling	+	0	M	M
gPRSCSINegotiatedCAMELCapabilityHandling	+	0	M	IVI
sGSNSupportedCAMELPhases	+	0	M	-
sGSNOfferedCAMEL4CSIs	+			-
gsmSCFaddressforCSI	+	0	M	-
	+	0	M	M
subscribedChargingCharacteristics	+	0	M	M
W-APN	+	0	M	M
listofauthorizedvisitednetworkidentifiers	+	0	M	М
3GPPAAAServerName	+	0	M	-
wLANUERemoteIPaddress	+	0	M	M
wLANAccess	+	0	M	M

wLANTunnelling	+	0	M	M
wLANDirectIPAccess	+	0	M	М
wAPNAuthorised	+	0	M	М
w-APNBarringType	+	0	M	М
w-APNChargingData	+	0	M	М
wLANUERemoteIPAddress	+	0	M	М
accessIndependenceFlag	+	0	M	М
i-WLANAccessType	+	0	M	М
chargingData	+	0	M	М
chargingCharacteristics	+	0	M	M
primaryOCSChargingFunctionName	+	0	M	М
secondaryOCSChargingFunctionName	+	0	M	М
primaryChargingCollectionFunctionName	+	0	M	М
secondaryChargingCollectionFunctionName	+	0	М	М

6.3.13.3 Attribute constraints

The optional attributes:

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

```
serviceTypes
sGSNOfferedCAMEL4CSIs
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	M	0
barringIndication	+	M	М	М
listofauthorizedvisitednetworkidentifiers	+	M	М	М
registrationStatus	+	M	M	M
sCSCFName	+	M	М	М
diameterClientAddressofSCSCF	+	M	М	-
serverCapabilities	+	0	М	M
subscribedMediaProfileIdentifier	+	0	М	M
initialFilterCriteria	+	0	М	М
applicationServerInformation	+	0	М	M
serviceIndication	+	M	М	М
primaryEventChargingFunctionName	+	0	М	M
secondaryEventChargingFunctionName	+	0	М	М
primaryChargingCollectionFunctionName	+	M	М	М
secondaryChargingCollectionFunctionName	+	0	М	М
gsmSCFaddressforIMCSI	+	0	М	М
iMSSFaddressforIMCSI	+	0	М	-
oIMCSI	+	0	М	М
vTIMCSI	+	0	М	М
dIMCS	+	0	М	M
gAAServiceType	+	0	М	M
gAAServiceIdentifier	+	0	М	М
gBAUserSecuritySettings	+	0	М	М
userSecuritySetting	+	0	М	М
userPublicIdentity	+	0	М	М
gAAAuthorizationflag	+	0	М	М
keyLifetime	+	0	М	М
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	M	М

6.3.17 SuMCSSupplService

6.3.17.1 Definition

In this management context:

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

6.3.17.2 Attributes

Attributes of SuMCSSupplService

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

6.3.17.3 Attribute constraints

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

6.3.18 SuMPSSupplService

6.3.18.1 Definition

In this management context:

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

6.3.18.2 Attributes

Attributes of SuMPSSupplService

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

6.3.18.3 Attribute constraints

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

6.4 Information relationship definitions

6.4.1 Agreement

6.4.1.1 Definition

This represents the agreement relationship between SuMService and SuMSubscribedService.

6.4.1.2 Roles

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

6.4.1.3 Constraints

-

6.4.2 Description

6.4.2.1 Definition

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

6.4.2.2 Roles

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

6.4.2.3 Constraints

-

6.5 Information attribute definitions

6.5.1 Definitions and legal values

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

Attributes

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

pSSubscribedServiceId	An attribute whose 'name+value'
	can be used as an RDN when
	naming an instance of the
	PSSubscribedService object class.
	This RDN uniquely identifies the
	object instance within the scope of
	its containing (parent) object
	instance.
iMSSubscribedServiceId	An attribute whose 'name+value'
	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'
SumSubscriptionFloriteid	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
description-specification	instance(s).
accorrection specificacton	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.
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
	23.008 clause 2.4.15.2
roamingRestrictionDueToUnsupportedFeature	123 UU8 CIAUSE 2 4 15 2

roamingRestrictedintheSGSNduetounsupportedfeature	23.008 clause 2.4.15.3
1SAIdentity	23.008 clause 2.4.15.3 23.008 clause 2.4.17.1
lsaPriority	23.008 clause 2.4.17.1
ISAPreferentialAccessIndicator	23.008 clause 2.4.17.2A
lSAActiveModeSupportIndicator	23.008 clause 2.4.17.2B
lSAOnlyAccessIndicator	23.008 clause 2.4.17.3
lSAActiveModeIndicator	23.008 clause 2.4.17.4
vPLMNIdentifier	23.008 clause 2.4.17.5
accessRestrictionData	23.008 clause 2.4.18
vLRNumber	23.008 clause 2.4.5
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 2.5.2
bCAllocation	23.008 clause 2.5.3
transferofSMoption	23.008 clause 2.5.4
mNRG	23.008 clause 2.7.2
checkSSIndicator	23.008 clause 2.7.4.4
mSPurgedForNonGPRSFlag	23.008 clause 2.7.5
mSpurgedforGPRSflag	23.008 clause 2.7.6
subscriberStatus	23.008 clause 2.8.1
barringOfOutgoingCalls	23.008 clause 2.8.2.1
barringOfIncomingCalls	23.008 clause 2.8.2.2
barringOfRoaming	23.008 clause 2.8.2.3
barringOfPremiumRateCalls	23.008 clause 2.8.2.4
barringOfSupplementaryServiceManagement	23.008 clause 2.8.2.5
barringOfRegistrationOfCallForwarding barringOfInvocationOfCallTransfer	23.008 clause 2.8.2.6
barringofPacketOrientedServices	23.008 clause 2.8.2.7
operatorDeterminedBarringPLMNspecificData	23.008 clause 2.8.2.8 23.008 clause 2.8.3
notificationToCSEFlagForODB	23.008 clause 2.8.4
qsmSCFaddresslistForODB	23.008 clause 2.8.5
messagesWaitingData	23.008 clause 2.0.3
mobileStationNotReachableFlag	23.008 clause 2.10.1
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 2.12.1
vBSGroupMembershipList	23.008 clause 2.12.2
broadcastCallInitiationAllowedList	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
gPRSCAMELSubscriptionInformationGPRSCSI	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 2.14.1.12/2.14.4.4
terminatingCAMELSubscriptionInformationTCSI	23.008 clause 2.14.1.2
vMSCTerminatingCAMELSubscriptionInformationVTCSI locationInformationSubscriberStateInformation	23.008 clause 2.14.1.2/3.2
uSSDCAMELSubscriptionInformationUCSI	23.008 clause 2.14.1.3
sSInvocationNotificationSSCSI	23.008 clause 2.14.1.4 23.008 clause 2.14.1.5/3.2
translationInformationFlagTIFCSI	23.008 clause 2.14.1.5/3.2 23.008 clause 2.14.1.6/3.6
shortMessageServiceCAMELSubscriptionInformationMOSMSCSI	
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INTERIORY INTERIOR INTERIOR			
SPRSGSINegotiatedCAMELCapabilityHandling		23.008 clause 2.14.1.9/2.14.3.6	
SCRINGOTIA EdCAMELCapabilityHandling			
BGCSINegotiatedCAMELCapabilityHandling 23.008 clause 2.14.2.1			
MOSMSCSISQSNNegotiatedCAMELCapabilityHandling			
MOSMINGSITVLENROGUELATEDADALILET 23,008 clause 2.14.2.1			
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INTERMESCRIVLERROGUETATECAMBLICAPABILITYHANDLING		23.008 clause 2.14.2.1	
CSSINegotiatedCAMELCapabilityHandling	mTSMSCSISGSNNegotiatedCAMELCapabilityHandling	23.008 clause 2.14.2.1	
CSSINegotiatedCAMELCapabilityHandling			
SSCSINEgotiatedCAMELCapabilityHandling	oCSINegotiatedCAMELCapabilityHandling		
VTCSINegotiatedCAMELCapabilityHandling 23.008 clause 2.14.2.14 VLROfferedCAMELACSIS 23.008 clause 2.14.2.2A VLROfferedCAMELACSIS 23.008 clause 2.14.2.2A VLROfferedCAMELACSIS 23.008 clause 2.14.2.2A VLROfferedCAMELPhases 23.008 clause 2.14.2.3 VLRSUpportedCAMELPhases 23.008 clause 2.14.2.3 VLRSUpportedCAMELPhases 23.008 clause 2.14.2.4 ULSSDGeneralCAMELServiceInformationUGCSI 23.008 clause 2.14.2.4 ULSSDGeneralCAMELServiceInformationUGCSI 23.008 clause 2.14.2.4 ULSSDGeneralCAMELServiceInformationUGCSI 23.008 clause 2.15.1 PrivacyExceptionList 23.008 clause 2.16.1.1 GMLCNumbers 23.008 clause 2.16.1.2 MOLREISE 23.008 clause 2.16.1.2 MOLREISE 23.008 clause 2.16.1.2 MOLREISE 23.008 clause 2.16.1.3 ServiceTypes 23.008 clause 2.16.1.4 ageIndicator 23.008 clause 2.17.1 CSAllocationRetentionpriority 23.008 clause 2.17.1 CSAllocationRetentionpriority 23.008 clause 2.19.1 privateUserIdentity 23.008 clause 3.1.1 publicIdentity 23.008 clause 3.1.2 DarringIndication 23.008 clause 3.2.1 SCSCFName 23.008 clause 3.2.1 SCSCFName 23.008 clause 3.2.1 SCSCFName 23.008 clause 3.2.1 SCSCFName 23.008 clause 3.2.3 ServerCapabilities 23.008 clause 3.5.1 InitialFilterCriteria 23.008 clause 3.5.3 ServerCapabilities 23.008 clause 3.7.4 SubscribedMediaProfileIdentifier 23.008 clause 3.5.3 ServerCapabilities 23.008 clause 3.5.3 Ser			
SGSNOFFCREDAMELACSIS 23.008 clause 2.14.2.2A			
DLEDGIFEREGICAMELACSIS 23.008 clause 2.14.2.2A			
SGSNSupportedCAMELPhases 23.008 clause 2.14.2.3 VLRSupportedCAMELPhases 23.008 clause 2.14.2.4 GBMSCFAGTARESERVICeInformationUGCSI 23.008 clause 2.14.2.4 USSDGeneralCAMELServiceInformationUGCSI 23.008 clause 2.15.1 DrivacyExceptionList 23.008 clause 2.16.1.1 gMLCNumbers 23.008 clause 2.16.1.2 mOLRList 23.008 clause 2.16.1.3 serviceTypes 23.008 clause 2.16.1.4 asgeIndicator 23.008 clause 2.17.1 cSAllocationRetentionpriority 23.008 clause 2.18.1 subscribedChargingCharacteristics 23.008 clause 2.19.1 privateUserIdentity 23.008 clause 3.1.1 publicIdentity 23.008 clause 3.1.2 barringIndication 23.008 clause 3.1.3 listofauthorizedvisitednetworkidentifiers 23.008 clause 3.1.3 registrationStatus 23.008 clause 3.2.1 scCCPName 23.008 clause 3.2.2 diameterClientAddressofSCSCF 23.008 clause 3.2.3 serverCapabilities 23.008 clause 3.5.3 serverCapabilities 23.008 clause 3.5.3 serverCapabilities 23.008 clause 3.5.3 <			
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SSDGeneralCAMELServiceInformationUGCSI 23.008 clause 2.14.2.4 STAIertTimer 23.008 clause 2.15.1 privacyExceptionList 23.008 clause 2.16.1.2 gMLCNumbers 23.008 clause 2.16.1.2 gMLCNumbers 23.008 clause 2.16.1.2 gMLCNumbers 23.008 clause 2.16.1.4 ageIndicator 23.008 clause 2.16.1.4 ageIndicator 23.008 clause 2.16.1.4 ageIndicator 23.008 clause 2.16.1.4 ageIndicator 23.008 clause 2.16.1 subscribedChargingCharacteristics 23.008 clause 2.18.1 subscribedChargingCharacteristics 23.008 clause 2.19.1 privateUserIdentity 23.008 clause 3.1.2 privateUserIdentity 23.008 clause 3.1.2 barringIndication 23.008 clause 3.1.2 barringIndication 23.008 clause 3.1.3 ilistofauthorizedvisitednetworkidentifiers 23.008 clause 3.1.4 registrationStatus 23.008 clause 3.1.4 registrationStatus 23.008 clause 3.2.1 scSCPName 23.008 clause 3.2.2 diameterClientAddressofSCSCF 23.008 clause 3.2.3 serverCapabilIties 23.008 clause 3.2.3 serverCapabilIties 23.008 clause 3.5.1 initialFilterCriteria 23.008 clause 3.5.1 initialFilterCriteria 23.008 clause 3.5.1 initialFilterCriteria 23.008 clause 3.5.1 serviceIndication 23.008 clause 3.5.1 initialFilterCriteria 23.008 clause 3.5.1 serviceIndication 23.008 clause 3.7.1 secondaryEventChargingFunctionName 23.008 clause 3.7.1 secondaryChargingCollectionFunctionName 23.008 clause 3.7.3 secondaryChargingCollectionFunctionName 23.008 clause 3.8.4 iMSSFaddressforIMCSI 23.008 clause 3.8.5 oIMCSI 23.008 clause 3.8.5 oIMCSI 23.008 clause 3.8.1 vTIMCSI 23.008 clause 3.8.2 dIMCS 23.008 clause 3.8.2 dIMCS 23.008 clause 3.8.3 gAAServiceIdentifier 23.008 clause 3.8.3 gAAServiceIdentifye 23.008 clause 3.8.5 oIMCSI 23.008 clause 3.8.1 gAAServiceIdentifye 23.008 clause 3.8.1 gAAServiceIdentifye 23.008 clause 3.8.1 gAAServiceIdentifye 23.008 clause 3.8.1 gAAServ			
ISTALertTimer			
PrivacyExceptionList		<u> </u>	
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## ServiceTypes			
serviceTypes 23.008 clause 2.16.1.4 ageIndicator 23.008 clause 2.17.1 cSAllocationRetentionpriority 23.008 clause 2.18.1 subscribedChargingCharacteristics 23.008 clause 2.19.1 privateUserIdentity 23.008 clause 3.1.2 publicIdentity 23.008 clause 3.1.2 barringIndication 23.008 clause 3.1.3 listofauthorizedvisitednetworkidentifiers 23.008 clause 3.2.1 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 3.5.2 applicationServerInformation 23.008 clause 3.5.3 serviceIndication 23.008 clause 3.7.3 secondaryEventChargingFunctionName 23.008 clause 3.7.1 secondaryEventChargingFunctionName 23.008 clause 3.7.2 primaryEventChargingFunctionName 23.008 clause 3.7.3 secondaryChargingCollectionFunctionName 23.008 clause 3.7.4 gsmSCFaddressforIMCSI 23.008 clau	5		
AggIndicator 23.008 clause 2.17.1			
cSAllocationRetentionpriority 23.008 clause 2.18.1 subscribedChargingCharacteristics 23.008 clause 3.1.1 privateUserIdentity 23.008 clause 3.1.2 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 3.5.2 applicationServerInformation 23.008 clause 3.5.3 serviceIndication 23.008 clause 3.5.4 primaryEventChargingFunctionName 23.008 clause 3.7.4 secondaryEventChargingFunctionName 23.008 clause 3.7.2 primaryChargingCollectionFunctionName 23.008 clause 3.7.2 primaryChargingCollectionFunctionName 23.008 clause 3.7.3 secondaryChargingCollectionFunctionName 23.008 clause 3.8.4 iMSSFaddressforIMCSI 23.008 clause 3.8.4 iMSSFaddressforIMCS			
subscribedChargingCharacteristics 23.008 clause 2.19.1 privateUserIdentity 23.008 clause 3.1.2 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 3.5.2 applicationServerInformation 23.008 clause 3.5.3 serviceIndication 23.008 clause 3.5.4 primaryEventChargingFunctionName 23.008 clause 3.7.4 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 3.8.1 VTIMCSI 23.008 clause 3.8.1 VTIMCSI 23.008 clause 3.8.1 <td></td> <td>23.008 clause 2.17.1</td> <td></td>		23.008 clause 2.17.1	
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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 3.5.2 applicationServerInformation 23.008 clause 3.5.3 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 3.8.4 iMSSFaddressforIMCSI 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 3.8.2 dIMCS 23.008 clause 3.8.2 dIMCS <t< td=""><td>privateUserIdentity</td><td>23.008 clause 3.1.1</td><td></td></t<>	privateUserIdentity	23.008 clause 3.1.1	
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diameterClientAddressofSCSCF			
ServerCapabilities			
subscribedMediaProfileIdentifier 23.008 clause 3.5.1 initialFilterCriteria 23.008 clause 3.5.2 applicationServerInformation 23.008 clause 3.5.3 serviceIndication 23.008 clause 3.7.4 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 gemSCFaddressforIMCSI 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.2 gBAUserSecuritySetting 23.008 clause 3A.3 userSecuritySetting 23.008 clause 3A.4 userPublicIdentity 23.008 clause 3A.6 keyLifetime 23.008 clause 3A.6 utCSecuritySetting 23.008 clause 3A.9 nAFGroupIdentity 23.008 clause 3A.1 w-APN 23.008 clause 3B.			
initialFilterCriteria 23.008 clause 3.5.2 applicationServerInformation 23.008 clause 3.5.3 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 3.7.4 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.2 gBAUserSecuritySettings 23.008 clause 3A.3 userPublicIdentity 23.008 clause 3A.4 userPublicIdentity 23.008 clause 3A.5 gAAAuthorizationflag 23.008 clause 3A.9 keyLifetime 23.008 clause 3A.9 urCCSecuritySetting 23.008 clause 3A.9 nAFGroupIdentity 23.008 clause 3A.1 w~APN 23.008 clause 3B.1.3 listofauthorizedvisitednetworkidentifiers 23.008 clause 3B.1.6			
applicationServerInformation 23.008 clause 3.5.3 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 3.7.2 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.2 gBAUserSecuritySetting 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.9 nAFGroupIdentity 23.008 clause 3B.1.3 listofauthorizedvisitednetworkidentifiers 23.008 clause 3B.1.4 3GPPAAAServerName 23.008 clause 3B.1.6			
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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 gmmSCFaddressforIMCSI 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.2 gBAUserSecuritySettings 23.008 clause 3A.3 userSecuritySetting 23.008 clause 3A.4 userPublicIdentity 23.008 clause 3A.6 keyLifetime 23.008 clause 3A.6 uiCCsecuritySetting 23.008 clause 3A.9 nAFGroupIdentity 23.008 clause 3A.9 nAFGroupIdentity 23.008 clause 3B.1.3 listofauthorizedvisitednetworkidentifiers 23.008 clause 3B.1.4 3GPPAAAServerName 23.008 clause 3B.1.6			
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 3A.1 gAAServiceType 23.008 clause 3A.1 gAAServiceIdentifier 23.008 clause 3A.2 gBAUserSecuritySettings 23.008 clause 3A.3 userSecuritySetting 23.008 clause 3A.4 userPublicIdentity 23.008 clause 3A.6 keyLifetime 23.008 clause 3A.8 uICCSecuritySetting 23.008 clause 3A.9 nAFGroupIdentity 23.008 clause 3A.1 w-APN 23.008 clause 3B.1.3 listofauthorizedvisitednetworkidentifiers 23.008 clause 3B.1.4 3GPPAAAServerName 23.008 clause 3B.1.6		•	
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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 3A.1 gAAServiceType 23.008 clause 3A.1 gBAUserSecuritySettings 23.008 clause 3A.2 gBAUserSecuritySettings 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		•	
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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.2 gBAUserSecuritySettings 23.008 clause 3A.3 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		23.008 clause 3.8.4	
vTIMCSI 23.008 clause 3.8.2 dIMCS 23.008 clause 3A.1 gAAServiceType 23.008 clause 3A.1 gAAServiceIdentifier 23.008 clause 3A.2 gBAUserSecuritySettings 23.008 clause 3A.3 userSecuritySetting 23.008 clause 3A.4 userPublicIdentity 23.008 clause 3A.5 gAAAuthorizationflag 23.008 clause 3A.6 keyLifetime 23.008 clause 3A.8 uICCSecuritySetting 23.008 clause 3A.9 nAFGroupIdentity 23.008 clause 3A.11 w-APN 23.008 clause 3B.1.3 listofauthorizedvisitednetworkidentifiers 23.008 clause 3B.1.4 3GPPAAAServerName 23.008 clause 3B.1.6	iMSSFaddressforIMCSI	23.008 clause 3.8.5	
dIMCS 23.008 clause 3.8.3 gAAServiceType 23.008 clause 3A.1 gAAServiceIdentifier 23.008 clause 3A.2 gBAUserSecuritySettings 23.008 clause 3A.3 userSecuritySetting 23.008 clause 3A.4 userPublicIdentity 23.008 clause 3A.5 gAAAuthorizationflag 23.008 clause 3A.6 keyLifetime 23.008 clause 3A.8 uICCSecuritySetting 23.008 clause 3A.9 nAFGroupIdentity 23.008 clause 3A.11 w-APN 23.008 clause 3B.1.3 listofauthorizedvisitednetworkidentifiers 23.008 clause 3B.1.4 3GPPAAAServerName 23.008 clause 3B.1.6	oIMCSI	23.008 clause 3.8.1	
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gAAServiceType 23.008 clause 3A.1 gAAServiceIdentifier 23.008 clause 3A.2 gBAUserSecuritySettings 23.008 clause 3A.3 userPublicIdentity 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	dIMCS	23.008 clause 3.8.3	
gAAServiceIdentifier 23.008 clause 3A.2 gBAUserSecuritySettings 23.008 clause 3A.3 userSecuritySetting 23.008 clause 3A.4 userPublicIdentity 23.008 clause 3A.5 gAAAuthorizationflag 23.008 clause 3A.6 keyLifetime 23.008 clause 3A.8 uICCSecuritySetting 23.008 clause 3A.9 nAFGroupIdentity 23.008 clause 3A.11 w-APN 23.008 clause 3B.1.3 listofauthorizedvisitednetworkidentifiers 23.008 clause 3B.1.4 3GPPAAAServerName 23.008 clause 3B.1.6	gAAServiceType		
gBAUserSecuritySettings 23.008 clause 3A.3 userSecuritySetting 23.008 clause 3A.4 userPublicIdentity 23.008 clause 3A.5 gAAAuthorizationflag 23.008 clause 3A.6 keyLifetime 23.008 clause 3A.8 uICCSecuritySetting 23.008 clause 3A.9 nAFGroupIdentity 23.008 clause 3A.11 w-APN 23.008 clause 3B.1.3 listofauthorizedvisitednetworkidentifiers 23.008 clause 3B.1.4 3GPPAAAServerName 23.008 clause 3B.1.6			
userSecuritySetting 23.008 clause 3A.4 userPublicIdentity 23.008 clause 3A.5 gAAAuthorizationflag 23.008 clause 3A.6 keyLifetime 23.008 clause 3A.8 uICCSecuritySetting 23.008 clause 3A.9 nAFGroupIdentity 23.008 clause 3A.11 w-APN 23.008 clause 3B.1.3 listofauthorizedvisitednetworkidentifiers 23.008 clause 3B.1.4 3GPPAAAServerName 23.008 clause 3B.1.6	gBAUserSecuritySettings		
userPublicIdentity 23.008 clause 3A.5 gAAAuthorizationflag 23.008 clause 3A.6 keyLifetime 23.008 clause 3A.8 uICCSecuritySetting 23.008 clause 3A.9 nAFGroupIdentity 23.008 clause 3A.11 w-APN 23.008 clause 3B.1.3 listofauthorizedvisitednetworkidentifiers 23.008 clause 3B.1.4 3GPPAAAServerName 23.008 clause 3B.1.6			
gAAAuthorizationflag 23.008 clause 3A.6 keyLifetime 23.008 clause 3A.8 uICCSecuritySetting 23.008 clause 3A.9 nAFGroupIdentity 23.008 clause 3A.11 w-APN 23.008 clause 3B.1.3 listofauthorizedvisitednetworkidentifiers 23.008 clause 3B.1.4 3GPPAAAServerName 23.008 clause 3B.1.6			
keyLifetime 23.008 clause 3A.8 uICCSecuritySetting 23.008 clause 3A.9 nAFGroupIdentity 23.008 clause 3A.11 w-APN 23.008 clause 3B.1.3 listofauthorizedvisitednetworkidentifiers 23.008 clause 3B.1.4 3GPPAAAServerName 23.008 clause 3B.1.6	_	•	
uICCSecuritySetting 23.008 clause 3A.9 nAFGroupIdentity 23.008 clause 3A.11 w-APN 23.008 clause 3B.1.3 listofauthorizedvisitednetworkidentifiers 23.008 clause 3B.1.4 3GPPAAAServerName 23.008 clause 3B.1.6			
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	-	•	
w-APN23.008 clause 3B.1.3listofauthorizedvisitednetworkidentifiers23.008 clause 3B.1.43GPPAAAServerName23.008 clause 3B.1.6			
listofauthorizedvisitednetworkidentifiers 23.008 clause 3B.1.4 3GPPAAAServerName 23.008 clause 3B.1.6			
3GPPAAAServerName 23.008 clause 3B.1.6			
20.000 0.000 02.110			
WLANUERemotelPaddress 23.008 clause 3B.1.10			
wLANAccess 23.008 clause 3B.5.1			
wLANTunnelling 23.008 clause 3B.5.2	_		
wLANDirectIPAccess 23.008 clause 3B.5.3			
wAPNAuthorised 23.008 clause 3B.5.4	wAPNAuthorised	23.008 clause 3B.5.4	

w-APNBarringType	23.008 clause 3B.5.4.2
w-APNChargingData	23.008 clause 3B.5.4.3
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.7.3
primaryChargingCollectionFunctionName	23.008 clause 3B.7.4
secondaryChargingCollectionFunctionName	23.008 clause 3B.7.5
ss-code	23.008 clause 2.6
	29.002 clause 7.6.4.1
provisioningState	23.008 clause 2.6
	29.002 clause 7.6.4.2
activationState	23.008 clause 2.6
	29.002 clause 7.6.4.2
registrationState	23.008 clause 2.6
	29.002 clause 7.6.4.2
overrideCategory	23.008 clause 2.6
	29.002 clause 7.6.4.4
cLIRestrictionOption	23.008 clause 2.6
	29.002 clause 7.6.4.5
forwarded-toNumber	23.008 clause 2.6
	29.002 clause 7.6.4.6
forwarded-toSubaddress	23.008 clause 2.6
	29.002 clause 7.6.4.6
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
1 22	29.002 clause 7.6.4.47
nbrSB	23.008 clause 2.6
	29.002 clause 7.6.4.47

Annex A (informative): Change history

	Change history						
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Dec 2003	S_22	SP-030617			Submitted to TSG SA#22 for Information	1.0.0	
Sep 2004	S_25	SP-040546			Submitted to TSG SA#25 for Approval	2.0.0	
Dec 2004	S_26	SP-040830			Submitted to TSG SA#26 for Approval	2.7.0	6.0.0
Mar 2005	S_27	SP-050024	001		Add Generic Authentication Architecture (GAA) attributes – Align with CN4's 23.008 (Organisation of subscriber data)	6.0.0	6.1.0
Mar 2005	S_27	SP-050024	002		Add Interworking WLAN (I-WLAN) parameters – Align with CN4's 23.008 (Organisation of subscriber data)	6.0.0	6.1.0
Mar 2005	S_27	SP-050024	003		Add Supplementary Service attributes – Align with CN4's 23.008 (Organisation of subscriber data)	6.0.0	6.1.0

History

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